

From gerry@cs.tamu.edu Thu Nov 30 23:54:45 1995
Received: from cs.tamu.edu (clavin.cs.tamu.edu [128.194.130.106]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id XAA03666 for <aprssig@tapir.org>; Thu, 30 Nov 1995 23:54:42 -0600 (CST)
Received: from solar.cs.tamu.edu (2961@solar.cs.tamu.edu [128.194.132.1]) by cs.tamu.edu (8.6.10/8.6.4) with ESMTP id XAA12969 for <aprssig@tapir.org>; Thu, 30 Nov 1995 23:54:02 -0600
From: Gerald J Creager <gerry@cs.tamu.edu>
Received: (gerry@localhost) by solar.cs.tamu.edu (8.6.10/8.6.4) id XAA04636 for aprssig@tapir.org; Thu, 30 Nov 1995 23:53:55 -0600
Message-Id: <199512010553.XAA04636@solar.cs.tamu.edu>
Subject: Re: [APRSSIG:4699] Re: QST Patch Antenna
To: aprssig@tapir.org
Date: Thu, 30 Nov 1995 23:53:54 -3000 (CST)
In-Reply-To: <199511282348.SAA32798@tequesta.gate.net> from "n2czf@gate.net" at Nov 28, 95 06:08:43 pm
X-Mailer: ELM [version 2.4 PL24]
Content-Type: text

just as a point of reference, and completely off the top of my head, RG-58 is worth about 1 dB of loss per foot, and RG-174 about 2.4 dB.

I use 18 inches of RG-174 on the cow boxes, with a passive antenna. Works real good there!

73, gerry N5JXS
gerry@cs.tamu.edu

From STEALTHiAM@aol.com Fri Dec 01 00:09:56 1995
Received: from mail04.mail.aol.com (mail04.mail.aol.com [152.163.172.53]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id AAA07217 for <aprssig@tapir.org>; Fri, 1 Dec 1995 00:09:53 -0600 (CST)
From: STEALTHiAM@aol.com
Received: by mail04.mail.aol.com (8.6.12/8.6.12) id BAA28146 for aprssig@tapir.org; Fri, 1 Dec 1995 01:09:21 -0500
Date: Fri, 1 Dec 1995 01:09:21 -0500
Message-ID: <951201010920_62071452@mail04.mail.aol.com>
To: aprssig@tapir.org
Subject: APRS growth in central Florida

If you are in the central Florida area, there is APRS activity growing every day. We in Polk County just got a WIDE area digi on the air that linked the Tampa Bay area with Orlando. The same digi will connect the south east coast as well on most nights. Also, we have a new GATE station here in Polk.

From gerry@cs.tamu.edu Fri Dec 01 00:30:07 1995
Received: from cs.tamu.edu (clavin.cs.tamu.edu [128.194.130.106]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id AAA09949 for <aprssig@tapir.org>; Fri, 1 Dec 1995 00:30:04 -0600 (CST)
Received: from solar.cs.tamu.edu (2961@solar.cs.tamu.edu [128.194.132.1]) by cs.tamu.edu (8.6.10/8.6.4) with ESMTP id AAA13949 for <aprssig@tapir.org>; Fri, 1 Dec 1995 00:29:29 -0600
From: Gerald J Creager <gerry@cs.tamu.edu>

Received: (gerry@localhost) by solar.cs.tamu.edu (8.6.10/8.6.4) id AAA05179 for aprssig@tapr.org; Fri, 1 Dec 1995 00:29:21 -0600
Message-Id: <199512010629.AAA05179@solar.cs.tamu.edu>
Subject: Re: [APRSSIG:4786] Re: GPS simultaneous parallel tracking
To: aprssig@tapr.org
Date: Fri, 1 Dec 1995 00:29:20 -0600 (CST)
In-Reply-To: <Pine.3.89.9511301700.B28768-0100000@bcfreenet.seflin.lib.fl.us> from "William Manley" at Nov 30, 95 11:04:30 pm
X-Mailer: ELM [version 2.4 PL24]
Content-Type: text

William Manley sez:

>

> I'd sure hate to make an IFR approach with a navigation instrument having
> 300 ft or more error. Runways are just not that wide.

My Garmin GPS-55AVD and I go everywhere together. I'd not think of trying to make a trip without it. Oh, and when I've correlated it to my instrument approaches, it's always gotten me to the end of the runway... just where it should be.

> GPS will never be IFR certified as long as they have the built in error.

'Scuse me? Care to meet TSO-C-129? that's the spec for approving GPS receivers as primary navigation devices for enroute and approach operations. And there are several out there who already meet the criteria. In my opinion, the spec is at least a little too strict!

The FAA has let contracts for their "Wide Area Augmentation System" which, to us mortals, is DGPS in one form or another. If I understand the latest system, it'll use pseudolites, and that means a whole bunch of the GPS receivers available today will see the "birds" and just operate. With no dither, and little error.

73, gerry

--

Gerry Creager	N5JXS	* SAREX Co-Investigator
gerry@cs.tamu.edu		* A little radio that lets kids talk
		* to astronauts, and smile

From z002594b@bcfreenet.seflin.lib.fl.us Fri Dec 01 00:53:09 1995
Received: from bcfreenet.seflin.lib.fl.us (bcfreenet.seflin.lib.fl.us [198.78.48.20]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id AAA10886 for <aprssig@tapr.org>; Fri, 1 Dec 1995 00:53:05 -0600 (CST)
Received: (from z002594b@localhost) by bcfreenet.seflin.lib.fl.us (8.6.12/8.6.12) id RAA11770; Thu, 30 Nov 1995 17:56:06 -0500
Date: Thu, 30 Nov 1995 17:56:05 -0500 (EST)
From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Subject: Re: [APRSSIG:4743] CD ROM Maps & APRS
To: aprssig@tapr.org
cc: aprssig@tapr.org
In-Reply-To: <9511292123.AA06354@oriole.ustc.vlsi.COM>

Message-ID: <Pine.3.89.9511301715.A28768-0100000@bcfreenet.seflin.lib.fl.us>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Precision Mapping is also provided for windows on a single CDROM. I have found the manual lat/lon feature more beneficial for making local maps than the stuff I've managed to dl from USGS or any of the maps I've seen constructed from empirical GPS data.

The Precision Mapping data is derived from, and has the same accuracy, as the USGS data. In addition, for S. Fl., it is more up-to-date than the dl'd info from edcftgp.cr.usgs.gov. Also, the data points from the dl'd service seem to be somewhat confusing. For example I've found road tracks which overlay one another, but with different feature addresses. Also they all come out a drab grey. Finally I suggest that 1 mile maps are an overkill. Generally motorists travel on highways rather than local roads. My observations suggest that, for S. FL., 32 to 64 mile maps are more usefull. (I do use a 8 mile map for my locality... derived from PM.)

I've found that the data derived from GPS tracking sometimes fails to match the Precision Mapping data. On one occasion, a GPS receiver parked in my driveway indicated my house to be 0.1 mile away! I suggest that gross accuracy doesn't justify a 1 mile scaled map.

Finally creating the maps from scratch, assisted by PM, is more entertaining than patching the faults found by either of the other two methods.

William Manley
z002594b@bcfreenet.seflin.lib.fl.us

On Wed, 29 Nov 1995, Bob Baltz wrote:

> Precision Mapping offers a two CD set of maps of the US. I have used them
>
> Bob Baltz *
> Chesapeake Region Sales *
> Ph:(410) 987- 8777 *
> Fax: (410) 987-4489 *
> E-mail bob.baltz@ustc.vlsi.com *
>
>
>

From S.Miller@RUS.Uni-Stuttgart.DE Fri Dec 01 02:52:00 1995
Received: from artemis.rus.uni-stuttgart.de (artemis.rus.uni-stuttgart.de [129.69.18.28]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id CAA14523 for <aprssig@tapir.org>; Fri, 1 Dec 1995 02:45:21 -0600 (CST)
Received: from intelsun.rus.uni-stuttgart.de (intelsun.rus.uni-stuttgart.de [129.69.13.50]) by artemis.rus.uni-stuttgart.de with SMTP id JAA07523 (8.6.12/IDA-1.6 for <aprssig@tapir.org>); Fri, 1 Dec 1995 09:12:16 +0100

Received: by intelsun.rus.uni-stuttgart.de (4.1/BelWue-1.1S(subsidiary))
id AA02970; Fri, 1 Dec 95 09:17:00 +0100
From: S.Miller@RUS.Uni-Stuttgart.DE (Shannon Miller)
Message-Id: <9512010817.AA02970@intelsun.rus.uni-stuttgart.de>
Subject: Re: [APRSSIG:4778] Re: Cat-bird's Seat
To: aprssig@tapr.org
Date: Fri, 1 Dec 1995 09:17:00 +0100 (MET)
In-Reply-To: <199511302125.PAA21191@crasher2.ttgcitn.com> from "Ryan Tucker" at
Nov 30, 95 03:39:58 pm
X-Mailer: ELM [version 2.4 PL21]
Content-Type: text

Ryan Tucker writes:

>
> Thus spake Bob Bruninga, splattered hither:
> > 1) Known APRS activity not apparently represented on the SIG:
> > Central Iowa, Arizona
>
> If only APRS worked under dosemu ;-)

That's not APRS' fault, as standard QBASIC doesn't even run under
dosemu (exact same failure)! I think the Linux folks are working
on it. They at least know about it.

Meanwhile, a Linux/XFree86 version of APRS is rumored to be being
considered by the MAC-APRS/Windows brothers. Now *that* would be
great!

Is there any demographical info. on APRS users with regards to what
O/S they typically use?

--Shannon, DL6SEU

From mwalker@interlog.com Fri Dec 01 07:08:00 1995
Received: from gold.interlog.com (root@gold.interlog.com [198.53.145.2]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id HAA21168 for <aprssig@tapr.org>; Fri, 1
Dec 1995 07:07:57 -0600 (CST)
Received: from interlog.com (mwalker.interlog.com [199.212.152.131]) by
gold.interlog.com (8.6.10/8.6.10) with SMTP id IAA03559 for <
aprssig@tapr.org>; Fri, 1 Dec 1995 08:07:54 -0500
Message-Id: <199512011307.IAA03559@gold.interlog.com>
Date: Fri, 01 Dec 95 08:07:48 EST
From: mwalker@interlog.com (Mike Walker)
Reply-To: mwalker@interlog.com (Mike Walker)
To: aprssig@tapr.org
X-Mailer: Mike Walker's PMMail v1.1
Subject: Re: [APRSSIG:4786] Re: GPS simultaneous parallel tracking

I can't imagine anyone attempting an approach with a GPS! That's way they have
the localizer and glideslope.

On Thu, 30 Nov 1995 23:04:30 -0600 (CST) you wrote:

>I'd sure hate to make an IFR approach with a navigation instrument having
>300 ft or more error. Runways are just not that wide.
>
>GPS will never be IFR certified as long as they have the built in error.
>
>
>William Manley
>z002594b@bcfreenet.seflin.lib.fl.us
>
>
>On Wed, 29 Nov 1995 n2czf@gate.net wrote:
>
>> As far as FAA approval on GPS units this is true, it is true for any
electronics
>> used on aircraft if it is used for primary operations and if it is used for IFR
>> flying. A GPS unit is not required by any means to operate an aircraft as you
>> well know but private pilots are buying them up as a supplement to their
regular
>> nav tools as in charts, and sight.
>> 73's De Rich N2CZF
>> n2czf@gate.net
>> Jupiter Farms Florida
>
>
>

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

From ksproul@hardees.Rutgers.EDU Fri Dec 01 07:10:26 1995
Received: from old-hercules.rutgers.edu (old-hercules.rutgers.edu [128.6.18.82])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id HAA21198 for <aprssig@tapir.org>; Fri,
1 Dec 1995 07:10:24 -0600 (CST)
Received: (from ksproul@localhost) by old-hercules.rutgers.edu
(8.6.12+bestmx+oldruq+newsunq+grosshack/8.6.12) id IAA16948 for aprssig@tapir.org;
Fri, 1 Dec 1995 08:10:21 -0500
Sender: Keith Sproul <ksproul@old-hercules.rutgers.edu>
Date: Fri, 1 Dec 95 8:10:21 EST
From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Reply-To: Keith Sproul <ksproul@hardees.Rutgers.EDU>
To: aprssig@tapir.org
In-Reply-To: Your message of Thu, 30 Nov 1995 15:39:58 -0600 (CST)
Subject: RE: DOSEMU
Message-ID: <CMM-RU.1.4.817823421.ksproul@old-hercules.rutgers.edu>

Ryan Tucker Wrote:

>If only APRS worked under dosemu ;-)

MacAPRS works under MAE, Macintosh Application Environment which is available for a few different UNIX Work Stations such as SUN and HP and I think a couple others..

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work 908 445-2968 Fax
http://www-ns.rutgers.edu/~ksproul/	908 821-4828 Home

From W2HOB@aol.com Fri Dec 01 07:33:24 1995
Received: from emout04.mail.aol.com (emout04.mail.aol.com [198.81.10.12]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id HAA21926 for <aprssig@tapir.org>; Fri, 1 Dec 1995 07:33:21 -0600 (CST)
From: W2HOB@aol.com
Received: by emout04.mail.aol.com (8.6.12/8.6.12) id IAA18463 for aprssig@tapir.org; Fri, 1 Dec 1995 08:32:49 -0500
Date: Fri, 1 Dec 1995 08:32:49 -0500
Message-ID: <951201083248_121922788@emout04.mail.aol.com>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:4785] COM-BUFFER-OVERRUN errors

Hello... this is for the fellow who wrote about experiencing Comm Buffer Overflows... sorry, I forget his name/address:

I run APRS 7.4C with a TNC (tried KPC-3 and MFJ-1270B and C) on COM1: with an Ultimeter-II on COM2: of a kludged-together '286 and have never experienced a COMM-BUFFER-OVERFLOW while active at the keyboard with program manipulation or messaging with another station.

I have seen that "error" SOMETIMES but only while booting up but it quickly disappears within seconds when everything settles in. I think my old junk-box '286 runs at 6 or 8-MHz MAYBE... certainly no faster than 10-MHz.

The U-II talks to the computer at 2400-b/s while the TNC communicates at 9600-b/s. I have APRS go get a WX string every 15-seconds which you can see in the blue box at the top-middle of the display. It beacons that weather every 5-min and all the while frames are being monitored and displayed at the bottom.

This has worked this way way back several versions. Good luck... I hope I have explained my configuration well enough for you to "stare-and-compare" how yours is configured compared to mine... helps sometime!

73 de Boyd, W2HOB@aol.com

From tdrumm@sparc.isl.net Fri Dec 01 07:38:28 1995
Received: from sparc.isl.net (root@sparc.isl.net [199.3.25.3]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id HAA22044 for <aprssig@tapir.org>; Fri, 1 Dec 1995

07:38:26 -0600 (CST)

Received: from slip-03.isl.net (slip-03.isl.net [199.3.25.103]) by sparc.isl.net (8.6.10/8.6.10) with SMTP id HAA06672 for <aprssig@tapr.org>; Fri, 1 Dec 1995

07:37:41 -0600

Message-Id: <199512011337.HAA06672@sparc.isl.net>

X-Sender: tdrumm@sparc.isl.net

X-Mailer: Windows Eudora Version 1.4.3

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Date: Fri, 01 Dec 1995 07:36:46 -0600

To: aprssig@tapr.org

From: tdrumm@sparc.isl.net (Tony Drumm)

Subject: Re: [APRSSIG:4786] Re: GPS simultaneous parallel tracking

300 feet? Have you ever flown an NDB approach? Or a VOR approach from a VOR a few miles from the airport, not aligned with the runway, of course (on a windy day)?

>I'd sure hate to make an IFR approach with a navigation instrument having >300 ft or more error. Runways are just not that wide.

>

>GPS will never be IFR certified as long as they have the built in error.

>

>

>William Manley

>z002594b@bcfreenet.seflin.lib.fl.us

>

Tony Drumm

internet: tdrumm@sparc.isl.net

Packet: aa0sm@wd0gnk.#semn.mn.usa.na

From ke4eer@ro.com Fri Dec 01 07:50:30 1995

Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id HAA22487 for <aprssig@tapr.org>; Fri, 1 Dec 1995

07:50:28 -0600 (CST)

Received: from ts1p17.ro.com (ts1p17.ro.com [205.216.92.37]) by sh1.ro.com (8.6.9/8.6.9) with SMTP id IAA13484 for <aprssig@tapr.org>; Fri, 1 Dec 1995

08:57:43 -0600

Message-Id: <199512011457.IAA13484@sh1.ro.com>

X-Mailer: InternetWorks Mail and News 1.1

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Date: Fri, 01 Dec 1995 07:50:01

From: ke4eer@ro.com (William Nolle)

To: aprssig@tapr.org

Subject: Re: [APRSSIG:4791] Re: CD ROM Maps & APRS

Well to each his own i guess but i find that the 1 mile maps (Actually 2 mile) are just great for such things as local events, Fox hunting etc. In fact on the last local fochunt i directed the later winner directly to within one block of the fox, this was only due to the fact that i could zoom in to a street level map of the area. So those that feel the highly detailed maps are not usefull to them don't need to use them. Like i have said before turn the 1 mile switch off HI.

Bill KE4EER
ke4eer@ro.com

>Precision Mapping is also provided for windows on a single CDROM. I have
>found the manual lat/lon feature more beneficial for making local maps
>than the stuff I've managed to dl from USGS or any of the maps I've seen
>constructed from empirical GPS data.
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>the USGS data. In addition, for S. Fl., it is more up-to-date than the
>dl'd info from edcftgp.cr.usgs.gov. Also, the data points from the dl'd
>service seem to be somewhat confusing. For example I've found road
>tracks which overlay one another, but with different feature addresses.
>Also they all come out a drab grey. Finally I suggest that 1 mile maps
>are an overkill. Generally motorists travel on highways rather than
>local roads. My observations suggest that, for S. FL., 32 to 64 mile
>maps are more usefull. (I do use a 8 mile map for my locality... derived
>from PM.)
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>I've found that the data derived from GPS tracking sometimes fails to
>match the Precision Mapping data. On one occasion, a GPS receiver
>parked in my driveway indicated my house to be 0.1 mile away! I suggest
>that gross accuracy doesn't justify a 1 mile scaled map.
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>Finally creating the maps from scratch, assisted by PM, is more
>entertaining than patching the faults found by either of the other two
>methods.
>
>William Manley
>z002594b@bcfreenet.seflin.lib.fl.us
>
>
>On Wed, 29 Nov 1995, Bob Baltz wrote:
>
>> Precision Mapping offers a two CD set of maps of the US. I have used them
>>
>> Bob Baltz *
>> Chesapeake Region Sales *
>> Ph:(410) 987- 8777 *
>> Fax: (410) 987-4489 *
>> E-mail bob.baltz@ustc.vlsi.com *
>>
>>
>>
>

From pete@freenet.grfn.org Fri Dec 01 08:05:56 1995
Received: from grfn.org (root@freenet.grfn.org [198.110.81.2]) by sys1.tapr.org
(8.7.2/8.7.2) with SMTP id IAA22951 for <aprssig@tapr.org>; Fri, 1 Dec 1995
08:05:37 -0600 (CST)
Received: from dialup232.iserv.net by grfn.org (5.x/SMI-SVR4)

id AA06181; Fri, 1 Dec 1995 09:04:16 -0500
Message-Id: <9512011404.AA06181@grfn.org>
Comments: Authenticated sender is <pete@grfn.org>
From: "Pete Hoffswell" <pete@freenet.grfn.org>
To: aprssig@tapr.org
Date: Fri, 1 Dec 1995 09:03:54 +0000
Subject: Re: [APRSSIG:4783] Re: 20 meter GATES
Priority: normal
X-Mailer: Pegasus Mail for Windows (v2.10)

> >
> > Currently I am one of two gates in the chicagoland area. I am
> > wondering if anyone on the SIG is interested in or is running a 20 or
> > 40 meter gate. I would be very interested in putting my gate on
> > either of those 2 bands for purposes of testing the reliability of
> > those links. Anyone interested in putting gates on those bands
> > please let me know. We would use the suggested freqs for APRS.

I _think_ that there is a 20m gate set up in Grand Rapids, MI, but am
not sure, as I'm new to APRS, and it's in its infancy over here
anyway.. Upon monitoring 2M, I received beacons from eastern
Michigan, and one in Northern Ohio. I believe these were digi'd from
20m.

> > jerdptro@xnet.com

> I have been listening on 20 and 40 meters for a gate myself with no luck
> thus far. Since I don't have a rig and antenna for 30 meter, I am
> interested in doing this. What freq do you want to use. Thanks.
>

> Walter Callahan
> N8DTY
> Columbus, Oh
> wcallahn@coil.com
>

I am interested in getting some connections up from western michigan
to chicago. Currently, I'm 2 meters only, however. It seems to me,
that two big beams across 75 miles of water should work pretty well,
but what do I know? :)

Once I figure out our current setup over here, I'll post a message,
or HST file or something.

-pete

```
-----  
| Pete Hoffswell | N9SSA | Holland Michigan |  
| Kent County | w)616-336-2304 | h)616-738-0934 |  
|http://www.grfn.org/~pete |  
-----
```

From jvaughn@TTIADMIN.tamu.edu Fri Dec 01 08:08:58 1995
Received: from TTIADMIN.tamu.edu (ttiadmin.tamu.edu [165.91.204.4]) by

sys1.tapir.org (8.7.2/8.7.2) with SMTP id IAA22976 for <aprssig@tapir.org>; Fri, 1 Dec 1995 08:08:55 -0600 (CST)
Received: by TTIADMIN.tamu.edu; Fri, 1 Dec 95 8:14:59 CST
Date: Fri, 1 Dec 95 8:12:15 CST
Message-ID: <vines.ITY7+Vrkjkb@TTIADMIN.tamu.edu>
X-Priority: 3 (Normal)
To: <aprssig@tapir.org>
From: "John Vaughn" <jvaughn@TTIADMIN.tamu.edu>
Subject: re: [APRSSIG:4792] Re: Cat-bird's Seat

WOW! APRS running under LINUX!!! I want one!

A friend has recently begun running a LINUX machine on his "network" at home and I would like to "see" him on APRS. If you could even steer me in the right direction....

Many TNX, 73 -John / KC5FEV

From jvaughn@TTIADMIN.tamu.edu Fri Dec 01 08:17:05 1995
Received: from TTIADMIN.tamu.edu (ttiadmin.tamu.edu [165.91.204.4]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id IAA23086 for <aprssig@tapir.org>; Fri, 1 Dec 1995 08:16:55 -0600 (CST)
Received: by TTIADMIN.tamu.edu; Fri, 1 Dec 95 8:22:52 CST
Date: Fri, 1 Dec 95 8:22:06 CST
Message-ID: <vines.ITY7+tykjkb@TTIADMIN.tamu.edu>
X-Priority: 3 (Normal)
To: <aprssig@tapir.org>
From: "John Vaughn" <jvaughn@TTIADMIN.tamu.edu>
Subject: re: [APRSSIG:4787] Re: I'm missing something?

Hey there, Gerry! I'm with TTI in Houston.

GIG 'EM!

From dkaplan@pionet.net Fri Dec 01 08:25:46 1995
Received: from ELWOOD.pionet.net (ELWOOD.pionet.net [199.120.116.1]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id IAA23500 for <aprssig@tapir.org>; Fri, 1 Dec 1995 08:25:43 -0600 (CST)
Received: from p50sc.pionet.net by ELWOOD.pionet.net; (5.65v3.0/1.1.8.2/030ct95-1046AM)
id AA10299; Fri, 1 Dec 1995 08:35:16 -0600
Date: Fri, 1 Dec 1995 08:35:16 -0600
Message-Id: <9512011435.AA10299@ELWOOD.pionet.net>
X-Sender: dkaplan@elwood.pionet.net
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapir.org
From: dkaplan@pionet.net (Dave Kaplan)
Subject: Re: [APRSSIG:4786] Re: GPS simultaneous parallel tracking

>I'd sure hate to make an IFR approach with a navigation instrument having
>300 ft or more error. Runways are just not that wide.
>
>GPS will never be IFR certified as long as they have the built in error.
>
>
>William Manley
>z002594b@bcfreenet.seflin.lib.fl.us

Sorry to tell you, but my King KLN90B GPS *IS* certified for IFR enroute and GPS approaches. With the moving map built in it sure is slick (but for \$12,000 it should be!).

I just had the radio shop drop some wires for RS-232 output, but it is not in standard \$GPXXX format. I have a copy of the format and am looking for someone to write a program that could be burned into a chip for the KPC-3 so I can run airmobile. Any takers??? Wonder how it would work at 16,000-25,000 where I usually fly?

Dave WB0WNX & Pilot of Piper Mojave N9232Y

From bruninga@nadm.navy.mil Fri Dec 01 09:06:52 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id JAA26129 for <aprssig@tapr.org>; Fri,
1 Dec 1995 09:06:40 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
KAA20789; Fri, 1 Dec 1995 10:06:55 -0500
Date: Fri, 1 Dec 1995 10:06:55 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:4782] Re: New GPS Rece
In-Reply-To: <024DBE3001B4ABAA@pc.gcs.litton.com>
Message-ID: <Pine.SUN.3.91.951201100636.20676B-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Does that magellan 2000 have a NMEA serial port?

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

From bruninga@nadm.navy.mil Fri Dec 01 09:12:29 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id JAA26536 for <aprssig@tapr.org>; Fri,
1 Dec 1995 09:12:25 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
KAA20975; Fri, 1 Dec 1995 10:12:45 -0500
Date: Fri, 1 Dec 1995 10:12:44 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:4785] COM-BUFFER-OVERRUN errors
In-Reply-To: <9512010649.AA0030@slip166-72-241-98.tn.us.ibm.net>

Message-ID: <Pine.SUN.3.91.951201101102.20676G-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 30 Nov 1995 moyers@ibm.net wrote:

> I seem to be getting Comm-Buffer-Overrun errors anytime I am typing
> comments to another station...

APR REPLY: Type FASTER! APRS ignores the COM ports while you are typing
in response to a PROMPT. Your buffers are overflwoing..

From rwf@mindspring.com Fri Dec 01 09:20:48 1995
Received: from borg.mindspring.com (root@borg.mindspring.com [204.180.128.14]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id JAA27218 for <aprssig@tapr.org>; Fri, 1
Dec 1995 09:20:31 -0600 (CST)
From: rwf@mindspring.com
Received: from rwf.mindspring.com [168.121.44.154] by borg.mindspring.com
with SMTP id KAA11444 for <aprssig@tapr.org>; Fri, 1 Dec 1995 10:20:12 -0500
Date: Fri, 1 Dec 1995 10:20:12 -0500
Message-Id: <199512011520.KAA11444@borg.mindspring.com>
X-Sender: rwf@mindspring.com (Unverified)
X-Mailer: Windows Eudora Version 2.1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
Subject: Re: [APRSSIG:4665] APRS VHF DX

Well no wonder...

Some guy in Cinci was pathing WIDE,WIDE,WIDE,WIDE. Talk about redundant
echos! :)

It was interesting, tho- glad it didn't last too long. I liked it better
when I saw WB4APR in Atlanta via WIDE,WIDE last month. That was some decent
packet dx.

Ralph

At 09:58 AM 11/27/95 -0600, you wrote:

>Hello,

>

>It was a nice surprise to see the VHF DX early on Saturday, 25 November 1995
>to the north and south from Dayton, Ohio.

>

>At one time, (aprox 0200 EST) I had stations on my screen from north of
>Detroit, MI south through Ohio and Kentucky. But at 0600 the stations from
>TN, AL and GA started to show up on my screen. WOW! This is the first time
>I have seen stations all along I-75 from Michigan to Georgia all on VHF.

> With some gateway action, a large part of I-75 looks to be covered by APRS
>stations.
>
>Will I-75 be the first ALL APRS FREEWAY? I'm sure I-95 is very close too.
>
>Looking for more APRS VHF DX,
>
>
>Steve Caesar AA8JK VK4SID
>
>TRI-STATE APRS WORKING GROUP (TAWG)
>
>
>
>

From rtucker@crasher2.ttgciitn.com Fri Dec 01 09:51:18 1995
Received: from insosf1.netins.net (ttgciitn@insosf1.netins.net [167.142.225.5]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id JAA29685 for <aprssig@tapr.org>; Fri, 1
Dec 1995 09:51:12 -0600 (CST)
Received: (from ttgciitn@localhost) by insosf1.netins.net id JAA07018 for
aprssig@tapr.org; Fri, 1 Dec 1995 09:51:06 -0600
Received: (from rtucker@localhost) by crasher2.ttgciitn.com (8.6.12/8.6.12) id
JAA26308 for aprssig@tapr.org; Fri, 1 Dec 1995 09:44:12 -0600
From: Ryan Tucker <rtucker@crasher2.ttgciitn.com>
Message-Id: <199512011544.JAA26308@crasher2.ttgciitn.com>
Subject: Re: [APRSSIG:4792] Re: Cat-bird's Seat
To: aprssig@tapr.org
Date: Fri, 1 Dec 1995 09:44:12 -0600 (CST)
In-Reply-To: <9512010817.AA02970@intelsun.rus.uni-stuttgart.de> from "Shannon
Miller" at Dec 1, 95 02:57:02 am
X-Mailer: ELM [version 2.4 PL24]
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

Thus spake Shannon Miller, splattered hither:

> Ryan Tucker writes:
> > Thus spake Bob Bruninga, splattered hither:
> > > 1) Known APRS activity not apparently represented on the SIG:
> > > Central Iowa, Arizona
> >
> > If only APRS worked under dosemu ;-)
>
> That's not APRS' fault, as standard QBASIC doesn't even run under
> dosemu (exact same failure)! I think the Linux folks are working
> on it. They at least know about it.

A pity, too. I'll keep an eye out for new dosemu versions.

> Meanwhile, a Linux/XFree86 version of APRS is rumored to be being
> considered by the MAC-APRS/Windows brothers. Now *that* would be
> great!

Oooers... that would be *nice*.

> Is there any demographical info. on APRS users with regards to what
> O/S they typically use?

I'll assume there's only a few Linux users out there -- most people haven't
seen the light. :-)

--

---Ryan Tucker ttgcitn.com owner
--rtucker@ttgcitn.com nether.net irc administrator
-http://www.netins.net/showcase/rtucker netins.net user development group
TTGCITN Communications Help Desk -- need internet/unix help? help@ttgcitn.com

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postmaster@microsoft.com and rtucker@ttgcitn.com. (c) 1995 Ryan Tucker.

From snabkey@wingsbbs.com Fri Dec 01 10:48:34 1995
Received: from wingsbbs.com ([205.243.16.10]) by sys1.tapr.org (8.7.2/8.7.2) with
SMTP id KAA01755 for <aprssig@tapr.org>; Fri, 1 Dec 1995 10:48:29 -0600 (CST)
Received: from 75 by wingsbbs.com
with SMTP (IPAD 0.9.1) id 2556500 ; Fri, 01 Dec 95 11:52:12 UTC
Message-ID: <30BF31D2.451A@wingsbbs.com>
Date: Fri, 01 Dec 1995 11:48:18 -0500
From: "Samuel T. Nabkey - WJ8T" <snabkey@wingsbbs.com>
X-Mailer: Mozilla 2.0b3 (Win95; I)
MIME-Version: 1.0
To: aprssig@tapr.org
Subject: Re: [APRSSIG:4798] Re: 20 meter GATES
References: <9512011404.AA06181@grfn.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Pete Hoffswell wrote:

>
> I _think_ that there is a 20m gate set up in Grand Rapids, MI, but am
> not sure, as I'm new to APRS, and it's in its infancy over here

Where have you been? Haven't seen your "mark" on the map? I have been on
since late May or June!

> anyway.. Upon monitoring 2M, I received beacons from eastern
> Michigan, and one in Northern Ohio. I believe these were digi'd from
> 20m.
>

NO there is NO gate on 20M in Grand Rapids.. That is all from 145.790Mhz
when the Band is open.. WE could use a gate here in Grand Rapids on 30M even

since our Gate provider's radio is in the Hospital.

Besides, Northern Ohio and Eastern Mi. is too close for 20...

73!!

Sam Nabkey - WJ8T
snabkey@wingsbbs.com
Grand Rapids, MI

```
> -----
> | Pete Hoffswell | N9SSA | Holland Michigan |
> | Kent County | w)616-336-2304 | h)616-738-0934 |
> |http:www.grfn.org/~pete |
> -----
```

From lancer@airways.com Fri Dec 01 11:55:24 1995
Received: from sonic.net (root@sonic.net [199.4.118.11]) by sys1.tapir.org
(8.7.2/8.7.2) with SMTP id LAA04088 for <aprssig@tapir.org>; Fri, 1 Dec 1995
11:55:19 -0600 (CST)
Received: from pm169.sonic.net (pm169 [199.4.118.169]) by sonic.net
(8.6.10/8.6.10) with SMTP id JAA19506 for <aprssig@tapir.org>; Fri, 1 Dec 1995
09:54:13 -0800
Date: Fri, 1 Dec 1995 09:54:13 -0800
Message-Id: <199512011754.JAA19506@sonic.net>
X-Sender: lancer@pop.sonic.net
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapir.org
From: lancer@airways.com (Lance Robinson)
Subject: Re: [APRSSIG:4801] Re: GPS simultaneous parallel tracking

dkaplan@pionet.net (Dave Kaplan) Wrote:

```
> <snip>
>I just had the radio shop drop some wires for RS-232 output, but it is not
>in standard $GPXXX format. I have a copy of the format and am looking for
>someone to write a program that could be burned into a chip for the KPC-3 so
>I can run airmobile. Any takers??? Wonder how it would work at
>16,000-25,000 where I usually fly?
>
>Dave WB0WNX & Pilot of Piper Mojave N9232Y
>
```

I am very new to the aprssig and don't know about available documentation for the KPC-3, but I assume they don't give out enough information to re-program their device. Re-engineering the ROM is very time consuming.

Your best bet would probably be to build a translator device that translates your GPS's output to the NMEA codes. There are some relatively cheap single board computers (\$150) that could be programmed to do the needed translation. If you are a little more industrious, you could put together a simple board with a microcontroller (87C51--has built in EPROM

and serial output) and a serial transceiver chip.

If you send me the format of your GPS's output, I'd be willing to look at it and give you more feedback. If you e-mail me, don't expect a reply until after Monday--I'll be out of town.

Best regards, --Lance

```
-----<><
D.Lance Robinson (lancer@airways.com)
Office: (707)526-6488      ! /==\  /7      /-----
Fax: (707)526-5643      <=====! ----( Airways Technology, Inc. (
Home: (707)823-8227      ! 8      \-----
```

From w2g3zfej@unix.asb.com Fri Dec 01 12:36:16 1995
Received: from UNiX.asb.com (root@UNiX.asb.com [165.254.128.2]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id MAA05420 for <aprssig@tapir.org>; Fri, 1 Dec 1995 12:36:11 -0600 (CST)
Received: from asb14 (sls4.asb.com [165.254.128.14]) by UNiX.asb.com (8.6.9/8.6.9) with SMTP id NAA05408 for <aprssig@tapir.org>; Fri, 1 Dec 1995 13:37:34 -0600
Message-Id: <199512011937.NAA05408@UNiX.asb.com>
X-Sender: w2g3zfej@unix.asb.com
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Fri, 01 Dec 1995 13:33:50 -0500
To: aprssig@tapir.org
From: w2g3zfej@unix.asb.com (bob)
Subject: Re: [APRSSIG:4802] Re: New GPS Rece
X-Mailer: <PC Eudora Version 1.4>

Hi Bob

I had a look at one in the local KMart and I couldn't see any external interface connections on it. Also scanned the manual and theres no mention of NMEA or interfaces etc.

Shame!

73 de bob w2/g3zfej
w2g3zfej@unix.asb.com

>Does that magellan 2000 have a NMEA serial port?
>
>
>DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)
>
>

From Paul_Moller@csg.mot.com Fri Dec 01 12:42:21 1995
Received: from motgate.mot.com (motgate.mot.com [129.188.136.100]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id MAA05495 for <aprssig@tapir.org>; Fri, 1 Dec 1995 12:42:19 -0600 (CST)
Received: from pobox.mot.com (pobox.mot.com [129.188.137.100]) by motgate.mot.com (8.7.1/8.6.10/MOT-3.8) with ESMTP id MAA15619 for <aprssig@tapir.org>; Fri, 1 Dec 1995 12:41:40 -0600 (CST)

Received: from OAMPC10.csg.mot.com (OAMPC10.csg.mot.com [144.188.134.33]) by pobox.mot.com (8.7.1/8.6.10/MOT-3.8) with SMTP id MAA05324 for <aprssig@tapr.org>; Fri, 1 Dec 1995 12:41:38 -0600 (CST)
Received: from PAULM_PC (PaulM_PC.csg.mot.com [144.188.36.8]) by OAMPC10.csg.mot.com (8.6.8.1/8.6.6) with SMTP id MAA11878 for <aprssig@tapr.org>; Fri, 1 Dec 1995 12:48:47 -0600
Date: Fri, 1 Dec 1995 12:48:47 -0600
Message-Id: <199512011848.MAA11878@OAMPC10.csg.mot.com>
X-Sender: mollpj@144.188.134.33
X-Mailer: Windows Eudora Pro Version 2.1.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: Paul Moller <Paul_Moller@csg.mot.com>
Subject: 30m interference

Did anybody else hear an FM signal on 10.150 yesterday with spanish voice broadcast? I first heard it around 5:30 pm CST and it was gone at 7:30pm. I switched in attenuators in the receiver to verify whether it was IM or not. It seemed to be a real signal, and did a pretty good job of clobbering 30m APRS while it was there.

Paul, WD9ABE

From rwf@mindspring.com Fri Dec 01 12:45:47 1995
Received: from borg.mindspring.com (root@borg.mindspring.com [204.180.128.14]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id MAA05526 for <aprssig@tapr.org>; Fri, 1 Dec 1995 12:45:40 -0600 (CST)
Received: from rwf.mindspring.com [168.121.44.154] by borg.mindspring.com with SMTP id NAA29135 for <aprssig@tapr.org>; Fri, 1 Dec 1995 13:45:33 -0500
Date: Fri, 1 Dec 1995 13:45:33 -0500
Message-Id: <199512011845.NAA29135@borg.mindspring.com>
X-Sender: rwf@mindspring.com (Unverified)
X-Mailer: Windows Eudora Version 2.1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: rwf <rwf@mindspring.com>
Subject: Re: [APRSSIG:4782] Re: New GPS Rece

Just beware: NO serial data port on the 2000, so cannot be connected to APRS.

At 09:30 PM 11/30/95 -0600, you wrote:

>Claude-

>The Radio Shack add looks like it is the Magellan GPS2000 which can be
>purchased for less than \$200 at any Sporting Goods store or K-Mart. I
>suspect Radio Shack is adding \$20 to get it with their name on it.

>

>73's de Mike, KA6SPT

>
>

From jim.deloach@CellNet.com Fri Dec 01 12:48:12 1995
Received: from smoke-2.cellnet.com (smoke-1.cellnet.com [148.80.1.2]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id MAA05659 for <aprssig@tapr.org>; Fri, 1
Dec 1995 12:48:10 -0600 (CST)
Received: (from uucp@localhost) by smoke-2.cellnet.com (8.6.12/8.6.9) id MAA15502
for <aprssig@tapr.org>; Thu, 30 Nov 1995 12:07:46 -0800
Received: from cellmail.cellnet.com(148.80.2.20) by smoke.cellnet.com via smap
(V1.3mjr)
id smaja5349; Thu Nov 30 12:06:51 1995
Received: from deloachpc (deloachpc.cellnet.com [148.80.9.60]) by
cellmail.cellnet.com (8.6.12/8.6.9) with SMTP id KAA13729 for <aprssig@tapr.org>;
Thu, 30 Nov 1995 10:13:01 -0800
Message-Id: <199511301813.KAA13729@cellmail.cellnet.com>
X-Sender: jdd@mailhost
X-Mailer: Windows Eudora Pro Version 2.1.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Thu, 30 Nov 1995 10:09:05 -0800
To: aprssig@tapr.org
From: Jim DeLoach <jim.deloach@CellNet.com>
Subject: Re: [APRSSIG:4765] New GPS Receivers

I saw that picture; one of them had the side-mounted antenna that looks just
like a Garmin.

Jim, WUOI

At 10:54 AM 11/30/95 -0600, you wrote:
>Just got a new flyer from Radio Shack, their number 534 (on last page).
>
>On page 7 of the flyer is the following announcement:
>
> "RadioShack Unlimited brings you the Latest!
>
> Get the latest in revolutionary technology
> delivered right to your front door - like the
> amazing new Global Positioning Systems that
> can pinpoint your position to within a few
> feet anywhere on earth! Starting as low as
> \$229.99."
>
>There are tiny pictures of two different receivers, but too small to make
>out many details. No other information and no catalog numbers given.
>
>Interesting - looks like the prices are coming down again! FYI.
>
> 73 Claude
> K5DTN
>

From dvelez@norfolk.infi.net Fri Dec 01 13:23:47 1995
Received: from moe.infi.net (moe.infi.net [198.22.1.119]) by sys1.tapr.org
(8.7.2/8.7.2) with SMTP id NAA06810 for <aprssig@tapr.org>; Fri, 1 Dec 1995
13:23:43 -0600 (CST)
Received: from dvelez.infi.net by moe.infi.net with SMTP
(Infinet-S-3.3) id OAA15450; Fri, 1 Dec 1995 14:23:30 -0500
Date: Fri, 1 Dec 1995 14:23:30 -0500
Message-Id: <199512011923.OAA15450@moe.infi.net>
X-Sender: dvelez@norfolk.infi.net
X-Mailer: Windows Eudora Light Version 1.5.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: Daniel Velez <dvelez@norfolk.infi.net>
Subject: Re: [APRSSIG:4784] Re: E.Coast 4 alias plan

>This brings up another question. How far down into VA towards the KY,TN,NC borders

```
>does the network up there come? I may have another twist to this.
```

I'm in Virginia Beach and the network to the north does not reach this area yet. I suspect the Richmond, VA digis are the closest digis to the north of me but for months I've been the only station on my map.... boooo

```
Dan Velez                A000000GA!  A000000GA!  
dvelez@infi.net         DIVE!  DIVE!  DIVE!  
n4wzr0wd4miz.va.usa.noam "Shimmin' out!"
```

From gwyn@paccomm.com Fri Dec 01 13:38:40 1995
Received: from paccomm.com ([163.125.30.1]) by sys1.tapr.org (8.7.2/8.7.2) with
SMTP id NAA07352 for <aprssig@tapr.org>; Fri, 1 Dec 1995 13:38:25 -0600 (CST)
X-BBS-Msg-Type: P
Date: Fri, 01 Dec 95 14:27:05 UTC
Message-Id: <11038@paccomm.com>
From: gwyn@paccomm.com (Gwyn Reedy, W1BEL)
To: aprssig@tapr.org
Subject: Apology to Mr. Nolle

I want to apologize publicly to Bill Nolle for his frustrations as outlined in his flammable message of 11/27.

I meant to do some good, but it didn't work out as planned. Hindsight says I should probably have stayed on the sidelines.

No full replay here, but a couple of notes.

1. I made the offer and told him there would be some delay. We were having a bear of a time shipping any PicoPackets to anyone during that period.
2. He reminded me a couple of times, and on the second time I asked for his address again as a convenience to prompt the shipping dept.

3. I gave the message and verbal instructions to shipping, but did not write it down. They apparently did nothing.
4. About the middle of November I got a private flame threatening "putting on the SIG all the PacComm horror stories I can find." I checked with shipping again to see if the unit had been shipped and lost or what. It took several days to get an answer, then the answer was that "it was already shipped on the 22nd."

Apparently the Thanksgiving holiday slowed the shipment so that it had not arrived by flame day (11/27) or a roast was too much to resist.

I meant to do a good deed, and our company botched it. I apologize for the inconvenience and frustration you suffered. However as a 22 year USAF veteran, I do not take kindly to allegations against my HONOR. That was going a bit too far.

I hope this is the end of all this wasted bandwidth. Some things should be handled off-line!

Sincerely,

Gwyn Reedy, W1BEL

gwyn@paccomm.com

W1BEL@amsat.org

PacComm Packet Radio Systems, Inc. +(813) 874-2980 Fax: +(813) 872-8696
4413 N. Hesperides St. BBS: +(813) 874-3078 (V.34)
Tampa, FL 33614-7618 USA info@paccomm.com http://www.paccomm.com/info

From z002594b@bcfreenet.seflin.lib.fl.us Fri Dec 01 14:50:24 1995
Received: from bcfreenet.seflin.lib.fl.us (bcfreenet.seflin.lib.fl.us [198.78.48.20]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id OAA09726 for <aprssig@tapir.org>; Fri, 1 Dec 1995 14:48:48 -0600 (CST)
Received: (from z002594b@localhost) by bcfreenet.seflin.lib.fl.us (8.6.12/8.6.12) id PAA07349; Fri, 1 Dec 1995 15:47:20 -0500
Date: Fri, 1 Dec 1995 15:47:19 -0500 (EST)
From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Subject: Re: [APRSSIG:4790] Re: GPS simultaneous parallel tracking
To: aprssig@tapir.org
cc: aprssig@tapir.org
In-Reply-To: <199512010629.AAA05179@solar.cs.tamu.edu>
Message-ID: <Pine.3.89.9512011536.A1331-0100000@bcfreenet.seflin.lib.fl.us>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

William Manley
z002594b@bcfreenet.seflin.lib.fl.us

On Fri, 1 Dec 1995, Gerald J Creager wrote:

> My Garmin GPS-55AVD and I go everywhere together. I'd not think of trying to
> make a trip without it. Oh, and when I've correlated it to my instrument

> approaches, it's always gottem me to the end of the runway... just where it
> should be.

Would you bet your life on it?

> 'Scuse me? Care to meet TSO-C-129? that's the spec for approving GPS
> receivers as primary navigation devices for enroute and approach operations.
> And there are several out there who already meet the criteria. In my opinion,
> the spec is at least a little too strict!

You are excused, but a spec doesn't make it happen. No equipment with 300'
error will ever be acceptable for IFR approach.

> The FAA has let contracts for their "Wide Area Augmentation System" which, to
> us mortals, is DGPS in one form or another. If I understand the latest
> system, it'll use pseudolites, and that means a whole bunch of the GPS
> receivers available today will see the "birds" and just operate. With no
> dither, and little error.

Aw so! I'd believe that the military GPS version would handle the
precision problem, just as I know that the present hobby, maritime, cross
country navigation configurations will not. Sounds like the future
equipment is a step beyond what we are now using.

btw, I've never heard of a pseudolite. What is it?

From gerry@cs.tamu.edu Fri Dec 01 15:00:35 1995

Received: from cs.tamu.edu (clavin.cs.tamu.edu [128.194.130.106]) by sys1.tapir.org
(8.7.2/8.7.2) with SMTP id PAA09900 for <aprssig@tapir.org>; Fri, 1 Dec 1995
15:00:31 -0600 (CST)

Received: from solar.cs.tamu.edu (2961@solar.cs.tamu.edu [128.194.132.1]) by
cs.tamu.edu (8.6.10/8.6.4) with ESMTP id OAA02657 for <aprssig@tapir.org>; Fri, 1
Dec 1995 14:59:54 -0600

From: Gerald J Creager <gerry@cs.tamu.edu>

Received: (gerry@localhost) by solar.cs.tamu.edu (8.6.10/8.6.4) id OAA15839 for
aprssig@tapir.org; Fri, 1 Dec 1995 14:59:49 -0600

Message-Id: <199512012059.OAA15839@solar.cs.tamu.edu>

Subject: Re: [APRSSIG:4793] Re: GPS simultaneous parallel tracking

To: aprssig@tapir.org

Date: Fri, 1 Dec 1995 14:59:48 -0600 (CST)

In-Reply-To: <199512011307.IAA03559@gold.interlog.com> from "Mike Walker" at Dec
1, 95 07:10:29 am

X-Mailer: ELM [version 2.4 PL24]

Content-Type: text

Some of us are working with other things besides tracking cars. I've got some
software on the burner now that provides Flight-Director-type graphics when it
sees WAS or usable differential. As for an approach that I back up with the
GPS, if I have the overlay already plugged into the GPS as waypoints, and use
that as a belt-and-suspenders backup, I feel it's prudent.

It is *NEVER* my primary approach tool. It's not certified. It is, however,
apparently more reliable than ARC/Sperry radios!

73, gerry N5JXS
gerry@cs.tamu.edu

From z002594b@bcfreenet.seflin.lib.fl.us Fri Dec 01 15:00:58 1995
Received: from bcfreenet.seflin.lib.fl.us (bcfreenet.seflin.lib.fl.us
[198.78.48.20]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id PAA09921 for
<aprssig@tapir.org>; Fri, 1 Dec 1995 15:00:44 -0600 (CST)
Received: (from z002594b@localhost) by bcfreenet.seflin.lib.fl.us (8.6.12/8.6.12)
id PAA11805; Fri, 1 Dec 1995 15:59:16 -0500
Date: Fri, 1 Dec 1995 15:59:16 -0500 (EST)
From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Subject: Re: [APRSSIG:4796] Re: GPS simultaneous parallel tracking
To: aprssig@tapir.org
cc: aprssig@tapir.org
In-Reply-To: <199512011337.HAA06672@sparc.isl.net>
Message-ID: <Pine.3.89.9512011520.C1331-0100000@bcfreenet.seflin.lib.fl.us>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I earned my private pilot license at Danbury Ct. I well understand VOR
approaches and turbulent conditions. But I believe that the real
question is whether you might attempt an IFR approach/landing with a
300' lateral error. At Danbury that would put you snuggled neatly amongst
the hillside pine trees.

William Manley
z002594b@bcfreenet.seflin.lib.fl.us

On Fri, 1 Dec 1995, Tony Drumm wrote:

> 300 feet? Have you ever flown an NDB approach? Or a VOR approach
> from a VOR a few miles from the airport, not aligned with the
> runway, of course (on a windy day)?
>
> >I'd sure hate to make an IFR approach with a navigation instrument having
> >300 ft or more error. Runways are just not that wide.
> >
> >GPS will never be IFR certified as long as they have the built in error.
> >
> >
> >William Manley
> >z002594b@bcfreenet.seflin.lib.fl.us
> >
> Tony Drumm
> internet: tdrumm@sparc.isl.net
> Packet: aa0sm@wd0gnk.#semn.mn.usa.na
>
>

From gerry@cs.tamu.edu Fri Dec 01 15:11:22 1995

Received: from cs.tamu.edu (clavin.cs.tamu.edu [128.194.130.106]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id PAA10501 for <aprssig@tapir.org>; Fri, 1 Dec 1995 15:11:19 -0600 (CST)
Received: from solar.cs.tamu.edu (2961@solar.cs.tamu.edu [128.194.132.1]) by cs.tamu.edu (8.6.10/8.6.4) with ESMTP id PAA03111 for <aprssig@tapir.org>; Fri, 1 Dec 1995 15:10:32 -0600
From: Gerald J Creager <gerry@cs.tamu.edu>
Received: (gerry@localhost) by solar.cs.tamu.edu (8.6.10/8.6.4) id PAA16143 for aprssig@tapir.org; Fri, 1 Dec 1995 15:09:58 -0600
Message-Id: <199512012109.PAA16143@solar.cs.tamu.edu>
Subject: New Year's Eve GPS Party (fwd)
To: aprssig@tapir.org
Date: Fri, 1 Dec 1995 15:09:57 -0600 (CST)
X-Mailer: ELM [version 2.4 PL24]
Content-Type: text

For your perusal... Looks like we're gonna get another second!

Tom Clark -- W3IWI sez:

> From clark@tomcat.gsfc.nasa.gov Fri Dec 1 14:23:03 1995
> Date: Fri, 01 Dec 95 20:02:16 UTC
> Message-Id: <89796@tomcat.gsfc.nasa.gov>
> From: clark@tomcat.gsfc.nasa.gov (Tom Clark -- W3IWI)
> Reply-To: clark@tomcat.gsfc.nasa.gov
> To: gps-timing@aleph.gsfc.nasa.gov
> Subject: New Year's Eve GPS Party
>
> The following arrived from USNO recently:
>
> | R 301557Z NOV 95
> | FM 2SOPS FALCON AFB CO//DOAN//
> | UNCLAS
> | NOTICE ADVISORY TO NAVSTAR USERS (NANU) 246-95365
> | SUBJ: LEAP SECOND
> | 1. CONDITION: THE INTERNATIONAL EARTH ROTATION SERVICE (IERS) HAS
> | ANNOUNCED THE INTRODUCTION OF A LEAP SECOND TO OCCUR AT THE END OF
> | DECEMBER 1995.
> | 2. COORDINATED UNIVERSAL TIME (UTC) WILL SEQUENCE AS FOLLOWS:
> | 31 DEC 1995 23 HOURS 59 MINUTES 59 SECONDS
> | 31 DEC 1995 23 HOURS 59 MINUTES 60 SECONDS
> | 1 JAN 1996 0 HOURS 0 MINUTES 0 SECONDS
> | 3. FOR GPS, AS WITH PREVIOUS LEAP SECOND UPDATES, THE UTC DATA IN
> | SUBFRAME 4, PAGE 18 OF THE NAVIGATION MESSAGE WILL CHANGE IN
> | ACCORDANCE WITH ICD-GPS 200.
> | BEFORE THE LEAP SECOND
> | GPS-UTC IS 10 (GPS IS AHEAD OF UTC BY 10 SECONDS)
> | AFTER THE LEAP SECOND
> | GPS-UTC WILL BE 11 (GPS WILL BE AHEAD BY 11 SECONDS)
> | 4. POC: LT CRUM AT COMMERCIAL (719) 567-6396 OR DSN 560 6396.
>
> Most GPS receivers use the continuous GPS time internally and only convert
> to UTC for user-interface output. I know of 3 ways that vendors have chosen
> to do the conversion:

> Would you bet your life on it?

As a backup? Yes. As a primary system? No. Having suffered SEVERAL systems failures in rented aircraft, the handheld GPS and handheld radio are mandatory for me now. Period.

> You are excused, but a spec doesn't make it happen. No equipment with 300'
> error will ever be acceptable for IFR approach.

Unfortunately, you're not familiar with the equipment out there, or the RMS error enjoyed most of the time. The fact that C/A code with SA on promises no more than 100 meter resolutions does not mean that you actually see that. Recall that the erroneous effects of SA are mitigated to some (pretty large) extent by parallel processing and increased dynamic conditions. An airplane is better suited for GPS navigation than your car or bicycle.

> > The FAA has let contracts for their "Wide Area Augmentation System" which, to
> > us mortals, is DGPS in one form or another. If I understand the latest
> > system, it'll use pseudolites, and that means a whole bunch of the GPS
> > receivers available today will see the "birds" and just operate. With no
> > dither, and little error.

>

> Aw so! I'd believe that the military GPS version would handle the
> precision problem, just as I know that the present hobby, maritime, cross
> country navigation configurations will not. Sounds like the future
> equipment is a step beyond what we are now using.

The spec for terminal and non-precision approach navigation requires the same basic performance from the receiver, including a separate channel that scans all satellites and notifies the receiver when it encounters a different solution from the "main" channels. This "receiver autonomous integrity monitoring" function is integral to making sure you don't wander off into space. Recall that the military units use P-code, with a much higher chip rate than C/A (the civilian code), but still use C/A for initial timing.

One of the big, big debates prior to the C-129 release was whether you could actually do area navigation with a GPS with SA on. The FAA was skeptical. The Aircraft Owners and Pilots Association was pivotal in convincing them that it could be done... as they were with overlaid approaches.

Precision approaches will definitely require differential correction, and from the immediate area of the terminal facility so that the same PRNs are being used, else you are NOT correcting!

> btw, I've never heard of a pseudolite. What is it?

A baby satellite that's on a fixed and well known spot on the ground. It doesn't move, it uses the Gold codes, it uses C/A, it's compatible with the receivers today, and it fits into the almanac and ephemeris messages. the original standard called for them to serve a 50 km radius area.

Gerry

From bruninga@nadm.navy.mil Fri Dec 01 20:02:53 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id UAA20797 for <aprssig@tapir.org>; Fri,
1 Dec 1995 20:02:49 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
VAA29549; Fri, 1 Dec 1995 21:03:12 -0500
Date: Fri, 1 Dec 1995 21:03:12 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapir.org
Subject: APRSdr and Footballs
Message-ID: <Pine.SUN.3.91.951201200912.29394D-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

We are in the middle of the annual football run. As you can see, I have time to send this message. The reason is, APRSdr is doing all the work! We have 4 TRACKERS stretched out over 100 miles and my 3 are all 1 watt trackers. There are BIG gaps in coverage between DIGIS and home stations, but it doesn't matter much. This is because we have an object labeled FOOTBALL being Dead-Reckoned (DR) by APRSdr.

With APRSdr, the FOOTBALL just keeps on truckin' at 7 Knots (128 runners 2 miles at a time in pairs) along the established route (color purple #13). The shuttle vehicles come and go, and whenever I see the Football DR more than a few minutes off, I just hook it and move it where it should be (about once an hour or so). My laptop is running the APRSdr via an HT and rubber duck. It sends out a NEW posit on the FOOTBALL once every 3 minutes via my normal APRS rig (RELAY) to the next WIDE and then the GATE...

Even the mobiles do well through the gaps. The normal APRS DR function just keeps on plotting them, and sure enough, when they approach a nearby RELAY or WIDE, they POP up, and their DR disappears...

I know that many of you turn off DR, but it is a WONDERFUL TOOL! Most importantly, the first thing it tells you is whether your PC clock is on time! If you immediately see DR lines everywhere, then FIX your PC clock, don't turn off DR! In this sense, DR is a WARNING, FIX the problem, don't turn off the alarm!

With your PC clock set properly DATE, TIME and TIMEZONE, and DAYLIGHT savings time (yes 4 items!) then you won't see DR LINES, unless you haven't heard from the mobile in a while. If you have DR off, the screen looks nice, but you DO NOT know if the positions are REAL and CURRENT. Only with DR ON can you be assured that the positions you are seeing are REAL!

I think I posted something earlier today about APRSdr was NOT working on an exact NORTH line. WRONG. I had changed my PC clock (see above) and the APRSdr algorithm was doing just what it should. I had changed my clock by an hour for STANDARD time, and the DR was going off into the woods by an hour...

So APRSdr is alive and well. Even for the BUS which was not GPS equipped,

when it left here with 45 mids onboard, I just gave it a speed of 50 Knots and watched it DR all the way to the mid check point. I got three visuals by other vehicles along the way that saw the bus, and updated the DR at each sighting. To all other APRS opservers, it looke like the BUS was tracking too...

Even without APRSdr, you can still do this for your event. With normal APRS you can still put an OBJ on the map and give it a course and speed. When it DRs past a corner, you have to hook the posit, estimate how far around the bend to place him, and then INSert him where he should be and estimate a new COURSE..

In conclusion: APRSdr is a GREAT tool for "predictable" events AND If you are turning off DR, you are not using APRS properly.

P.S. Dont forget about the POSITION ALARM. A group of mids was waiting for the shuttle. Last posit was 20 miles out and the DR line was off at 45 degrees to us, but its LENGTH made it clear that they were CLOSE. So, I put a POSIT alarm on the old posit, so I would know INSTANTLY when a new posit came in. Sure enough, 5 minutes later the bells went off, and I knew he was close, (or at lest that I had an update)... There they were, only minutes away (but pulling into the 7-11!).

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

From bruninga@nadm.navy.mil Fri Dec 01 20:41:40 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id UAA21965 for <aprssig@tapir.org>; Fri,
1 Dec 1995 20:41:37 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
VAA29674; Fri, 1 Dec 1995 21:41:59 -0500
Date: Fri, 1 Dec 1995 21:41:59 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapir.org
Subject: ZIP-SIG.ZIP
Message-ID: <Pine.SUN.3.91.951201213203.29636A-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I just posted the latest version (and last for a while) of the ZIP-SIG.HST file on tapir. YOU can replay this file and see where all the SIG users live. I had sent out some earlier messages about ZIP codes missing from my database, but actually, those were instances of where more than one station had the same ZIP code. (and therefore my program could not make a second match). So only one call will show at each ZIP code. (the first one reported). I hope your egos can handle it, hi hi...

If you got the first file that I sent to everyone, there is little new, except for a few more calls, and the ARIZONA and IOWA states are now represeneted... Again, you will find the APRS74c to be handy, since on FILE-REPLY, it retains the path and file name of the last file REPLAYED. THis makes it easy to repetatively replay the ZIP-SIG file while zooing into diferent areas...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

From n2czf@gate.net Fri Dec 01 21:27:47 1995
Received: from mail1.gate.net (mail1.gate.net [199.227.0.18]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id VAA23275 for <aprssig@tapr.org>; Fri, 1 Dec 1995 21:27:44 -0600 (CST)
From: n2czf@gate.net
Received: from tequesta.gate.net (root@tequesta.gate.net [199.227.0.12]) by mail1.gate.net (8.6.12/8.6.9) with ESMTP id WAA62354 for <aprssig@tapr.org>; Fri, 1 Dec 1995 22:28:49 -0500
Received: from 199.227.125.145 (wpbfl2-17.gate.net [199.227.125.145]) by tequesta.gate.net (8.6.9/8.6.9) with SMTP id WAA42664 for <aprssig@tapr.org>; Fri, 1 Dec 1995 22:27:53 -0500
Date: Fri, 1 Dec 1995 22:27:53 -0500
Message-Id: <199512020327.WAA42664@tequesta.gate.net>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Subject: APRS Live Round table via Internet ?
To: aprssig@tapr.org
X-Mailer: SPRY Mail Version: 04.00.06.17

Just a thought I had that I would pass along to other sig users.

With so many APRS users on Internet now how about letting everyone in two areas TALK with each other via a local repeater using Internet as a link!

No expensive equipment is needed and regular sig members can set up a net at a predetermined time between two active areas so ideas can be exchanged. All that is needed is Internet Phone, permission to use a repeater that can cover most of the local APRS area and a VOX BOX from Radio Shack.

Purchase a Voice Activated Telephone Remote Control box RS# 43-263 and cut or remove R7 a 3.3 meg resistor. Replace that opening with a 1 meg resistor and the modification is COMPLETE! R7 controls the hang time and sets it at about 1 second. Pump your VHF or UHF radio's audio into a Sound Blaster's input (BE CAREFUL with the amount of level!!) and connect your Blaster's audio output to the VOX input. Take the VOX output and feed it to the radio with proper level adjustments and the VOX Box switch line and connect to your PTT on the radio. You now have a Internet<->VHF or UHF Link in operation.

Once the two internet stations connect to each other everyone will be able to converse in normal fashion but be aware of VOX circuits in the link and give plenty of time to let the units activate and deactivate. This would be a great way to "teleconference" two active APRS areas so that ideas can be passed along and APRS users that need help can ask other experienced users in other areas.

Yes, we do that on the sig all the time but how many users do you have in your area that are not on internet, or how often have you wondered what so and so really sounds like in person ??

The real test will be when more than one link can be established at a time and we can get a country wide APRS meeting real-time over the internet! Anyone have experience as net control with EXTREMELY large nets ? hi hi

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

From ke4eer@ro.com Fri Dec 01 22:50:32 1995
Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id WAA25777 for <aprssig@tapir.org>; Fri, 1 Dec 1995 22:50:30 -0600 (CST)
Received: from ts1p16.ro.com (ts1p16.ro.com [205.216.92.36]) by sh1.ro.com (8.6.9/8.6.9) with SMTP id XAA26658 for <aprssig@tapir.org>; Fri, 1 Dec 1995 23:57:58 -0600
Message-Id: <199512020557.XAA26658@sh1.ro.com>
X-Mailer: InternetWorks Mail and News 1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Fri, 01 Dec 1995 22:50:18
From: ke4eer@ro.com (William Nolle)
To: aprssig@tapir.org
Subject: Re: [APRSSIG:4821] APRS Live Round table via Internet ?

By the way i have done this also, i have talked on several repeaters using I-Phone and in fact talk to many many hams that way. I have a setup similar but i use the Ramsey Vox board for the delay, really works great, Had a QSO with Ralph N4NEQ the other night about mapmaking chatted for about an hour as you know he's in Atlanta and i'm near Huntsville,AL works great. SO far i must have logged about 20 country's and hate to guess how many states and don't even have any HF equipment Hi.

Bill KE4EER

>Just a thought I had that I would pass along to other sig users.
>
>With so many APRS users on Internet now how about letting everyone in two
> areas TALK with each other via a local repeater using Internet as a link!
>
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>Purchase a Voice Activated Telephone Remote Control box RS# 43-263 and cut or
>remove R7 a 3.3 meg resistor. Replace that opening with a 1 meg resistor and the
>modification is COMPLETE! R7 controls the hang time and sets it at about 1
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>and APRS users that need help can ask other experienced users in other areas.
>
>Yes, we do that on the sig all the time but how many users do you have in your
>area that are not on internet, or how often have you wondered what so and so
>really sounds like in person ??
>
>The real test will be when more than one link can be established at a time and
>we can get a country wide APRS meeting real-time over the internet! Anyone have
>experience as net control with EXTREMELY large nets ? hi hi
>
>73's De Rich N2CZF
>n2czf@gate.net
>Jupiter Farms Florida
>
>
>

From KSwaggart@aol.com Fri Dec 01 23:36:07 1995
Received: from emout06.mail.aol.com (emout06.mail.aol.com [198.81.10.43]) by
sys1.tapir.org (8.7.2/8.7.2) with SMTP id XAA27442 for <aprssig@tapir.org>; Fri, 1
Dec 1995 23:36:05 -0600 (CST)
From: KSwaggart@aol.com
Received: by emout06.mail.aol.com (8.6.12/8.6.12) id AAA24026 for
aprssig@tapir.org; Sat, 2 Dec 1995 00:35:33 -0500
Date: Sat, 2 Dec 1995 00:35:33 -0500
Message-ID: <951202003532_122700461@emout06.mail.aol.com>
To: aprssig@tapir.org
Subject: Improved MKMAPKKE.ZIP

For the APRS !:100K map makers, I've uploaded an improved version of MKMAPKKE
to tapir.org:/tapir/SIG/aprssig/uploads.

This "tweak" to John Cavanagh's (KB4XF) great mkmaphk1 program includes a
menu which allows you to include railroads, elevation contour lines,
city/town boundaries, and force the inclusion of streams at any scale.

MKMAPKKE also extracts trails and streams for maps of 2 mile scale or less.
Airports are always extracted if you have the Miscellaneous Transportation
Features files.

A text file, MKMAPKKE.TXT, is included which describes the new map making
features. Also, a sample map and .DAT file showing a contour map along the
coast north of San Francisco is also included which you can view using
MAPFIXxx.

Have fun and keep cranking out those maps!

73, Ken, W7KKE
kswaggart@aol.com

From kc5ejk@onramp.net Fri Dec 01 23:49:59 1995
Received: from mailhost.onramp.net (mailhost.onramp.net [199.1.11.3]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id XAA28236 for <aprssig@tapr.org>; Fri, 1
Dec 1995 23:49:56 -0600 (CST)
Received: from [199.1.11.151] (dal151.onramp.net [199.1.11.151]) by
mailhost.onramp.net (8.6.12/8.6.5) with SMTP id XAA05181 for <aprssig@tapr.org>;
Fri, 1 Dec 1995 23:49:44 -0600
X-Sender: kc5ejk@onramp.net (Unverified)
Message-Id: <v02130500ace5970d27ec@[199.1.11.163]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Fri, 1 Dec 1995 23:50:09 -0600
To: aprssig@tapr.org
From: kc5ejk@onramp.net (Robert Winingham)
Subject: Sig list for MACAPRS

I re-formatted and removed a few double decimal points
The re-format was just a simple find and replace but
here it is to save time.

Use the OPEN FILE menu not the OPEN Call Sign file menu command.

----- Cut here -----
N1JEL *>APRS :!*****/4224. N/ 7140. W-APRSSIG
N1EDZ *>APRS :!*****/4212. N/ 723. W-APRSSIG
N1CPE *>APRS :!*****/4218. N/ 7125. W-APRSSIG
N1JDU *>APRS :!*****/4225. N/ 713. W-APRSSIG
WA1YKN *>APRS :!*****/4137. N/ 7022. W-APRSSIG
NM1W *>APRS :!*****/4252. N/ 7110. W-APRSSIG
WA1LOU *>APRS :!*****/4135. N/ 7258. W-APRSSIG
KD1LY *>APRS :!*****/414. N/ 7328. W-APRSSIG
W2HOB *>APRS :!*****/403. N/ 7450. W-APRSSIG
W2HOB-15*>APRS :!*****/3957. N/ 7440. W-APRSSIG
WA2TXV *>APRS :!*****/4039. N/ 7453. W-APRSSIG
WU2Z *>APRS :!*****/4027. N/ 7428. W-APRSSIG
G3ZFJ *>APRS :!*****/4043. N/ 734. W-APRSSIG
N200C *>APRS :!*****/4251. N/ 746. W-APRSSIG
N2CYO *>APRS :!*****/4441. N/ 7327. W-APRSSIG
W2ICZ *>APRS :!*****/4255. N/ 7845. W-APRSSIG
N3EOY *>APRS :!*****/4154. N/ 8018. W-APRSSIG
WB3KGT *>APRS :!*****/4157. N/ 7958. W-APRSSIG
AA3AK *>APRS :!*****/4026. N/ 7625. W-APRSSIG
WM3L *>APRS :!*****/4125. N/ 7539. W-APRSSIG
WB3IHY *>APRS :!*****/403. N/ 754. W-APRSSIG
K3BY *>APRS :!*****/396. N/ 7532. W-APRSSIG
K3VOA *>APRS :!*****/3831. N/ 77.6. W-APRSSIG
WA3FYZ *>APRS :!*****/397. N/ 7651. W-APRSSIG
KC6HUR *>APRS :!*****/3912. N/ 7649. W-APRSSIG

WA7ZZB	*>APRS	:!*****/397.	N/ 7630.	W-APRSSIG
N3OZB	*>APRS	:!*****/394.	N/ 7633.	W-APRSSIG
N4ULS	*>APRS	:!*****/3855.	N/ 7715.	W-APRSSIG
N4PGS	*>APRS	:!*****/383.	N/ 7829.	W-APRSSIG
K4LMY	*>APRS	:!*****/3721.	N/ 7754.	W-APRSSIG
N4WZR	*>APRS	:!*****/3646.	N/ 764.	W-APRSSIG
WB4PAN	*>APRS	:!*****/3637.	N/ 80.6.	W-APRSSIG
KB4MPX	*>APRS	:!*****/3721.	N/ 7912.	W-APRSSIG
WA4RTS	*>APRS	:!*****/3725.	N/ 7912.	W-APRSSIG
WA4BWB	*>APRS	:!*****/3724.	N/ 797.	W-APRSSIG
K4EUK	*>APRS	:!*****/3719.	N/ 7931.	W-APRSSIG
N4DBX	*>APRS	:!*****/3636.	N/ 7923.	W-APRSSIG
AC4RC	*>APRS	:!*****/3721.	N/ 7916.	W-APRSSIG
KA4YNO	*>APRS	:!*****/3721.	N/ 7923.	W-APRSSIG
N4QWF	*>APRS	:!*****/3730.	N/ 7910.	W-APRSSIG
W4DGE	*>APRS	:!*****/366.	N/ 7952.	W-APRSSIG
KQ4MS	*>APRS	:!*****/3549.	N/ 7834.	W-APRSSIG
KE4LUO	*>APRS	:!*****/350.	N/ 8112.	W-APRSSIG
N4NEQ	*>APRS	:!*****/34.6.	N/ 8437.	W-APRSSIG
W8KJM	*>APRS	:!*****/3352.	N/ 846.	W-APRSSIG
WB4DPT	*>APRS	:!*****/3351.	N/ 8424.	W-APRSSIG
KM4HY	*>APRS	:!*****/3357.	N/ 8325.	W-APRSSIG
KC4ZGQ	*>APRS	:!*****/3250.	N/ 8340.	W-APRSSIG
WB2NGZ	*>APRS	:!*****/296.	N/ 8058.	W-APRSSIG
KO4HD	*>APRS	:!*****/2439.	N/ 8127.	W-APRSSIG
KB4XE	*>APRS	:!*****/2615.	N/ 8015.	W-APRSSIG
KF4DBI	*>APRS	:!*****/2618.	N/ 8010.	W-APRSSIG
KO4HD-2	*>APRS	:!*****/2543.	N/ 8018.	W-APRSSIG
KE4CGR	*>APRS	:!*****/2655.	N/ 806.	W-APRSSIG
N2CZF	*>APRS	:!*****/2655.	N/ 8012.	W-APRSSIG
KE4RVP	*>APRS	:!*****/2757.	N/ 8152.	W-APRSSIG
KA3DBK	*>APRS	:!*****/2758.	N/ 8244.	W-APRSSIG
N4NR	*>APRS	:!*****/3318.	N/ 8648.	W-APRSSIG
KE4EER	*>APRS	:!*****/3457.	N/ 8634.	W-APRSSIG
N4BFZ	*>APRS	:!*****/3419.	N/ 8618.	W-APRSSIG
KQ4TV	*>APRS	:!*****/3610.	N/ 8636.	W-APRSSIG
KD4KSQ	*>APRS	:!*****/364.	N/ 8643.	W-APRSSIG
N4PUQ	*>APRS	:!*****/361.	N/ 8419.	W-APRSSIG
WA4DOR	*>APRS	:!*****/3511.	N/ 8951.	W-APRSSIG
KB8JXO	*>APRS	:!*****/3956.	N/ 8258.	W-APRSSIG
N8DTY	*>APRS	:!*****/3957.	N/ 8255.	W-APRSSIG
N8TBO	*>APRS	:!*****/403.	N/ 831.	W-APRSSIG
W8BK0	*>APRS	:!*****/404.	N/ 8257.	W-APRSSIG
KK4PM	*>APRS	:!*****/4123.	N/ 820.	W-APRSSIG
AG9V	*>APRS	:!*****/3937.	N/ 844.	W-APRSSIG
AA8JK-10	*>APRS	:!*****/3937.	N/ 8415.	W-APRSSIG
AA8JK	*>APRS	:!*****/3945.	N/ 846.	W-APRSSIG
KB4JY	*>APRS	:!*****/3948.	N/ 842.	W-APRSSIG
N8MWZ	*>APRS	:!*****/4045.	N/ 844.	W-APRSSIG
N9SSA	*>APRS	:!*****/4249.	N/ 868.	W-APRSSIG
N8OON	*>APRS	:!*****/4713.	N/ 8827.	W-APRSSIG
N0AN	*>APRS	:!*****/421.	N/ 9337.	W-APRSSIG
KG0DW	*>APRS	:!*****/4136.	N/ 9344.	W-APRSSIG

WB0WNX	*>APRS	:!*****/4231.	N/ 9622.	W-APRSSIG
NM0B	*>APRS	:!*****/4156.	N/ 9140.	W-APRSSIG
N9UNR	*>APRS	:!*****/4325.	N/ 8810.	W-APRSSIG
KB9JTT	*>APRS	:!*****/4258.	N/ 889.	W-APRSSIG
N9WSZ	*>APRS	:!*****/436.	N/ 882.	W-APRSSIG
N00KW	*>APRS	:!*****/45.6.	N/ 939.	W-APRSSIG
WA2VOI	*>APRS	:!*****/45.6.	N/ 9314.	W-APRSSIG
WA0LPV	*>APRS	:!*****/4755.	N/ 97.6.	W-APRSSIG
N0NGW	*>APRS	:!*****/4755.	N/ 974.	W-APRSSIG
WD9ABE	*>APRS	:!*****/4211.	N/ 883.	W-APRSSIG
KB9LIN	*>APRS	:!*****/4215.	N/ 887.	W-APRSSIG
WD9DMP	*>APRS	:!*****/4157.	N/ 889.	W-APRSSIG
N9VHW	*>APRS	:!*****/421.	N/ 889.	W-APRSSIG
N9VJQ	*>APRS	:!*****/4155.	N/ 8844.	W-APRSSIG
N9WMM	*>APRS	:!*****/4137.	N/ 8743.	W-APRSSIG
N9LCI	*>APRS	:!*****/4145.	N/ 8821.	W-APRSSIG
W9RI	*>APRS	:!*****/4128.	N/ 9033.	W-APRSSIG
NX9M	*>APRS	:!*****/4028.	N/ 8858.	W-APRSSIG
K9ORP	*>APRS	:!*****/4036.	N/ 8859.	W-APRSSIG
K9CYW	*>APRS	:!*****/4030.	N/ 8858.	W-APRSSIG
N0ILB	*>APRS	:!*****/3834.	N/ 9214.	W-APRSSIG
WB5TKC	*>APRS	:!*****/3016.	N/ 8946.	W-APRSSIG
WA5UTF	*>APRS	:!*****/3255.	N/ 9637.	W-APRSSIG
KC5HTN	*>APRS	:!*****/3257.	N/ 9639.	W-APRSSIG
KC5EJK	*>APRS	:!*****/3249.	N/ 9646.	W-APRSSIG
K5DTN	*>APRS	:!*****/3255.	N/ 9647.	W-APRSSIG
WB5QLD	*>APRS	:!*****/3251.	N/ 9710.	W-APRSSIG
WA5YVC	*>APRS	:!*****/3245.	N/ 9719.	W-APRSSIG
WB3FYV	*>APRS	:!*****/3240.	N/ 9728.	W-APRSSIG
KC5HHN	*>APRS	:!*****/3037.	N/ 9622.	W-APRSSIG
N5JXS	*>APRS	:!*****/3036.	N/ 9618.	W-APRSSIG
N5JXS	*>APRS	:!*****/3034.	N/ 9617.	W-APRSSIG
N5RNE	*>APRS	:!*****/3025.	N/ 9742.	W-APRSSIG
WA5LHS	*>APRS	:!*****/3012.	N/ 9748.	W-APRSSIG
W5UGQ	*>APRS	:!*****/3512.	N/10154.	W-APRSSIG
WS5R	*>APRS	:!*****/3513.	N/10148.	W-APRSSIG
AB5GE	*>APRS	:!*****/3336.	N/10148.	W-APRSSIG
KB1TX	*>APRS	:!*****/3937.	N/10447.	W-APRSSIG
KC7NXD	*>APRS	:!*****/4110.	N/1122.	W-APRSSIG
KC7CO	*>APRS	:!*****/4034.	N/11149.	W-APRSSIG
N7QVU	*>APRS	:!*****/3339.	N/11210.	W-APRSSIG
KC7EAO	*>APRS	:!*****/3131.	N/11015.	W-APRSSIG
WB6NGC	*>APRS	:!*****/347.	N/1189.	W-APRSSIG
N6HNY	*>APRS	:!*****/3426.	N/11831.	W-APRSSIG
K6VPV	*>APRS	:!*****/3424.	N/11831.	W-APRSSIG
KK6IB	*>APRS	:!*****/3312.	N/11721.	W-APRSSIG
WA2VFN	*>APRS	:!*****/331.	N/11651.	W-APRSSIG
KB6FAS	*>APRS	:!*****/3330.	N/11739.	W-APRSSIG
WB6HAG	*>APRS	:!*****/3343.	N/11754.	W-APRSSIG
KC6UTH	*>APRS	:!*****/3537.	N/11740.	W-APRSSIG
KE6EGK	*>APRS	:!*****/3736.	N/12228.	W-APRSSIG
AC6JA	*>APRS	:!*****/3733.	N/12215.	W-APRSSIG
K06JR	*>APRS	:!*****/3759.	N/1226.	W-APRSSIG

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KE6AFE  *>APRS      :!*****/3658.  N/12158.  W-APRSSIG
KA7EZ0  *>APRS      :!*****/3836.  N/12116.  W-APRSSIG
WA2AGE  *>APRS      :!*****/397.   N/1214.   W-APRSSIG
NH6BA   *>APRS      :!*****/2119.  N/1581.   W-APRSSIG
WH6SJ   *>APRS      :!*****/2119.  N/15751.  W-APRSSIG
N7ZKL   *>APRS      :!*****/4530.  N/12251.  W-APRSSIG
KC7AGK  *>APRS      :!*****/4451.  N/1233.   W-APRSSIG
WA7JEI  *>APRS      :!*****/4429.  N/1243.   W-APRSSIG
KC7CWP  *>APRS      :!*****/4437.  N/12355.  W-APRSSIG
KA6QKM  *>APRS      :!*****/4425.  N/1242.   W-APRSSIG
KD6IEN  *>APRS      :!*****/4419.  N/1244.   W-APRSSIG
KJ7ET   *>APRS      :!*****/481.   N/12245.  W-APRSSIG
----- cut here -----

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73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

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From k4gvo@america.net Sat Dec 02 05:31:47 1995
Received: from america.net (atl11.america.net [199.170.121.2]) by sys1.tappr.org
(8.7.2/8.7.2) with SMTP id FAA12621 for <aprssig@tappr.org>; Sat, 2 Dec 1995
05:31:45 -0600 (CST)
Received: from k4gvo (pm1-28.america.net [199.170.121.128]) by america.net
(8.6.10/8.6.9) with SMTP id LAA24275 for <aprssig@tappr.org>; Sat, 2 Dec 1995
11:36:39 GMT
Message-Id: <199512021136.LAA24275@america.net>
Sender: <k4gvo@atl11.america.net>
From: "Jim Lynch" <k4gvo@america.net>
To: aprssig@tappr.org
Date:      Sat, 2 Dec 1995 06:27:25 +0000
Subject:    Re: [APRSSIG:4807] Re: GPS simultaneous parallel tracking
Reply-to:   k4gvo@america.net
Priority:   normal
X-mailer:   Pegasus Mail/Windows (v1.22)

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> Date:      Fri, 1 Dec 1995 12:13:24 -0600 (CST)
> Reply-to:   aprssig@tappr.org
> From:      lancer@airways.com (Lance Robinson)
> To:        aprssig@tappr.org
> Subject:    [APRSSIG:4807] Re: GPS simultaneous parallel tracking

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> dkaplan@pionet.net (Dave Kaplan) Wrote:

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>
> > <snip>
> >I just had the radio shop drop some wires for RS-232 output, but it is not
> >in standard $GPXXX format. I have a copy of the format and am looking for
> >someone to write a program that could be burned into a chip for the KPC-3 so
> >I can run airmobile. Any takers??? Wonder how it would work at
> >16,000-25,000 where I usually fly?
> >
> >Dave WB0WNX & Pilot of Piper Mojave N9232Y
> >

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>
> I am very new to the aprssig and don't know about available
> documentation for the KPC-3, but I assume they don't give out enough
> information to re-program their device. Re-engineering the ROM is very time
> consuming.
> Your best bet would probably be to build a translator device that
> translates your GPS's output to the NMEA codes. There are some relatively
> cheap single board computers (\$150) that could be programmed to do the
> needed translation. If you are a little more industrious, you could put
> together a simple board with a microcontroller (87C51--has built in EPROM
> and serial output) and a serial transceiver chip.
> If you send me the format of your GPS's output, I'd be willing to look
> at it and give you more feedback. If you e-mail me, don't expect a reply
> until after Monday--I'll be out of town.
The little PIC chips would be able to handle that I'd thing. Those
are rather cheap. Less than \$100. Someone with the development
tools would have to develop it, though.

>
> Best regards, --Lance
>
> -----<><
> D.Lance Robinson (lancer@airways.com)
> Office: (707)526-6488 ! /==\ /7 /-----
> Fax: (707)526-5643 <=====! ----(Airways Technology, Inc. (
> Home: (707)823-8227 ! 8 \-----
>
>

From ke4eer@ro.com Sat Dec 02 07:21:18 1995
Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tapr.org
(8.7.2/8.7.2) with SMTP id HAA15418 for <aprssig@tapr.org>; Sat, 2 Dec 1995
07:21:16 -0600 (CST)
Received: from ts1p11.ro.com (ts1p11.ro.com [205.216.92.31]) by sh1.ro.com
(8.6.9/8.6.9) with SMTP id IAA12321 for <aprssig@tapr.org>; Sat, 2 Dec 1995
08:28:52 -0600
Message-Id: <199512021428.IAA12321@sh1.ro.com>
X-Mailer: InternetWorks Mail and News 1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sat, 02 Dec 1995 07:21:09
From: ke4eer@ro.com (William Nolle)
To: aprssig@tapr.org
Subject: MKMAPKKE

Ken Swaggert posted a message here stating that he had posted an updated
version of MKMAPKKE on tapr but i sure can't find it, then i attempted to send
Ken a e-mail message and it was returned by my postmaster saying there is no
address like kswaggert@aol.com. Ok Ken whats up Hi...

Bill KE4EER

From KSwaggart@aol.com Sat Dec 02 09:08:21 1995

Received: from emout06.mail.aol.com (emout06.mail.aol.com [198.81.10.43]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id JAA18315 for <aprssig@tapr.org>; Sat, 2 Dec 1995 09:08:19 -0600 (CST)

From: KSwaggart@aol.com

Received: by emout06.mail.aol.com (8.6.12/8.6.12) id KAA19242 for aprssig@tapr.org; Sat, 2 Dec 1995 10:07:48 -0500

Date: Sat, 2 Dec 1995 10:07:48 -0500

Message-ID: <951202100747_41702780@emout06.mail.aol.com>

To: aprssig@tapr.org

Subject: MKMAPKKE.ZIP now at tapr

Don't know what happend to the first upload. Just uploaded again to:

tapr.org:/tapr/SIG/aprssig/upload at 0700 PST, Saturday, 2 DEC. This time I checked the directory and confirmed it is there. Strange.

I'm still here at kswaggart@aol.com

73, Ken, W7KKE

From BenWS5R@aol.com Sat Dec 02 09:18:49 1995

Received: from mail04.mail.aol.com (mail04.mail.aol.com [152.163.172.53]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id JAA18690 for <aprssig@tapr.org>; Sat, 2 Dec 1995 09:18:47 -0600 (CST)

From: BenWS5R@aol.com

Received: by mail04.mail.aol.com (8.6.12/8.6.12) id KAA14949 for aprssig@tapr.org; Sat, 2 Dec 1995 10:18:15 -0500

Date: Sat, 2 Dec 1995 10:18:15 -0500

Message-ID: <951202101814_41708815@mail04.mail.aol.com>

To: aprssig@tapr.org

Subject: Re: [APRSSIG:4771] Re: DATA RADIO OPTIONS

Thr Alinco DR-1200, is being discontinued. It can be found for around \$200.00 or less at various suppliers. Just purchased on for \$209.00 at HRO. True FM, synthesized, and 25 watts out. Almost too much radio for a packet rig, but for \$200.00, not bad.

Ben WS5R DM95cf

From wricharz@ix.netcom.com Sat Dec 02 09:59:20 1995

Received: from ix2.ix.netcom.com (ix2.ix.netcom.com [199.182.120.1]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id JAA19573 for <aprssig@tapr.org>; Sat, 2 Dec 1995 09:59:18 -0600 (CST)

Received: from ix-cha-nc3-01.ix.netcom.com by ix2.ix.netcom.com (8.6.12/SMI-4.1/Netcom)

id HAA29206; Sat, 2 Dec 1995 07:59:06 -0800

Message-Id: <199512021559.HAA29206@ix2.ix.netcom.com>

X-Sender: wricharz@popd.ix.netcom.com

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Date: Sat, 02 Dec 1995 10:57:45 -0500

To: aprssig@tapr.org

From: wricharz@ix.netcom.com (William Richarz)

Subject: Re: [APRSSIG:4827] MKMAPKKE.ZIP now at tapr

X-Mailer: <PC Eudora Version 1.4>

>Don't know what happend to the first upload. Just uploaded again to:
>
>tapr.org:/tapr/SIG/aprssid/upload at 0700 PST, Saturday,2 DEC. This time I
>checked the directory and confirmed it is there. Strange.
>
>I'm still here at kswaggart@aol.com
>
>73, Ken, W7KKE

I just downloaded by copy of MKMAPKKE.ZIP...Thanks Ken.
Bill Richarz <WA4VAF>
wricharz@ix.netcom.com

From ke4eer@ro.com Sat Dec 02 10:50:30 1995
Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tapr.org
(8.7.2/8.7.2) with SMTP id KAA21943 for <aprssid@tapr.org>; Sat, 2 Dec 1995
10:50:28 -0600 (CST)
Received: from ts1p17.ro.com (ts1p17.ro.com [205.216.92.37]) by sh1.ro.com
(8.6.9/8.6.9) with SMTP id LAA19733 for <aprssid@tapr.org>; Sat, 2 Dec 1995
11:58:02 -0600
Message-Id: <199512021758.LAA19733@sh1.ro.com>
X-Mailer: InternetWorks Mail and News 1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sat, 02 Dec 1995 10:50:16
From: ke4eer@ro.com (William Nolle)
To: aprssid@tapr.org
Subject: Re: [APRSSIG:4827] MKMAPKKE.ZIP now at tapr

Got it this time Ken..

Bill KE4EER

>Don't know what happend to the first upload. Just uploaded again to:
>
>tapr.org:/tapr/SIG/aprssid/upload at 0700 PST, Saturday,2 DEC. This time I
>checked the directory and confirmed it is there. Strange.
>
>I'm still here at kswaggart@aol.com
>
>73, Ken, W7KKE
>

From ke4eer@ro.com Sat Dec 02 10:52:52 1995
Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tapr.org
(8.7.2/8.7.2) with SMTP id KAA21981 for <aprssid@tapr.org>; Sat, 2 Dec 1995
10:52:50 -0600 (CST)
Received: from ts1p17.ro.com (ts1p17.ro.com [205.216.92.37]) by sh1.ro.com
(8.6.9/8.6.9) with SMTP id MAA19835 for <aprssid@tapr.org>; Sat, 2 Dec 1995

12:00:30 -0600
Message-Id: <199512021800.MAA19835@sh1.ro.com>
X-Mailer: InternetWorks Mail and News 1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sat, 02 Dec 1995 10:52:43
From: ke4eer@ro.com (William Nolle)
To: aprssig@tapr.org
Subject: Re: [APRSSIG:4828] Re: DATA RADIO OPTIONS

Be prepared for the display lights to go out after a while. I have two and both did the same thing and i heard of many others with the same probelm. Just somethig to look out for..

Bill KE4EER

>Thr Alinco DR-1200, is being discontinued. It can be found for around \$200.00
>or less at various suppliers. Just purchased on for \$209.00 at HRO. True FM,
>synthesized, and 25 watts out. Almost too much radio for a packet rig, but
>for \$200.00, not bad.
>
> Ben WS5R DM95cf
>

From snabkey@wingsbbs.com Sat Dec 02 12:03:40 1995
Received: from wingsbbs.com ([205.243.16.10]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id MAA24716 for <aprssig@tapr.org>; Sat, 2 Dec 1995 12:03:37 -0600 (CST)
Message-Id: <199512021803.MAA24716@sys1.tapr.org>
Received: from [75] by wingsbbs.com
with SMTP (IPAD 0.9.1) id 2565500 ; Sat, 02 Dec 95 13:07:21 UTC
Comments: Authenticated sender is <snabkey@wingsbbs.com>
From: "Samuel T. Nabkey - WJ8T" <snabkey@wingsbbs.com>
To: ke4eer@ro.com (William Nolle), aprssig@tapr.org
Date: Sat, 2 Dec 1995 13:03:26 -0500
Subject: Re: [APRSSIG:4831] Re: DATA RADIO OPTIONS
Priority: normal
X-mailer: Pegasus Mail for Windows (v2.23)

On 2 Dec 95 at 11:03, William Nolle wrote:

> Be prepared for the display lights to go out after a while. I have two and both
> did the same thing and i heard of many others with the same probelm.
> Just somethig to look out for..
>
> Bill KE4EER
> -----
>

In a system in use in our County, we had 6 DR-1200/KPC-2/3 combos running.. Only down time from any for a five year time spread was caused by a theft.

I am ordering one Monday.. Thanks for the TIP!

Sam Nabkey - WJ8T
snabkey@wingsbbs.com
wj8t@w8dc.ampr.org

From bruninga@nadm.navy.mil Sat Dec 02 12:30:05 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id MAA25302 for <aprssig@tapir.org>; Sat,
2 Dec 1995 12:30:02 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
NAA00763; Sat, 2 Dec 1995 13:30:25 -0500
Date: Sat, 2 Dec 1995 13:30:25 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapir.org
Subject: 000PS in 74c
Message-ID: <Pine.SUN.3.91.951202132753.758A-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Consider 74c a BETA test, hi hi. In making the DIGI list longer and the
HEARD list shorter on the HOOKED display at the bottom of the screen, I
goofed and the HEARD data is now LONGER and wraps around over top of the
POSIT line. This is a TRIVIAL problem, but I'm going to fix it
immediately and release 74d. SO do not further distro 74c. 74D will be
done in 2 hours...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

From bruninga@nadm.navy.mil Sat Dec 02 13:13:53 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id NAA26489 for <aprssig@tapir.org>; Sat,
2 Dec 1995 13:13:50 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
OAA00842; Sat, 2 Dec 1995 14:14:13 -0500
Date: Sat, 2 Dec 1995 14:14:12 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapir.org
Subject: BETA test of 74c.
Message-ID: <Pine.SUN.3.91.951202141031.836A@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Well, I now have feedback about the BAND switching for the AEA dual band
TNC's also does not yet work right. SO rather than making a 74D
immediately, and since the word is out to not distro 74c further, I will
hold off a few days and make another crack at the dual band switching.

So if you already have 74c, USE IT. But feedback any bugs you see,
and do NOT further distro it, since it will be soon replaced...

----- Forwarded message -----

Date: Sat, 2 Dec 1995 12:32:59 -0600 (CST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
To: aprssig@tapr.org
Subject: [APRSSIG:4833] 000PS in 74c

Consider 74c a BETA test, hi hi. In making the DIGI list longer and the HEARD list shorter on the HOOKED display at the bottom of the screen, I goofed and the HEARD data is now LONGER and wraps around over top of the POSIT line. This is a TRIVIAL problem, but I'm going to fix it immediately and release 74d. SO do not further distro 74c. 74D will be done in 2 hours...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

From W2HOB@aol.com Sat Dec 02 13:21:26 1995
Received: from emout05.mail.aol.com (emout05.mail.aol.com [198.81.10.37]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id NAA26821 for <aprssig@tapr.org>; Sat, 2 Dec 1995 13:21:24 -0600 (CST)
From: W2HOB@aol.com
Received: by emout05.mail.aol.com (8.6.12/8.6.12) id OAA25255 for aprssig@tapr.org; Sat, 2 Dec 1995 14:20:52 -0500
Date: Sat, 2 Dec 1995 14:20:52 -0500
Message-ID: <951202142051_123030882@emout05.mail.aol.com>
To: aprssig@tapr.org
Subject: WB4APR's onramp to Internet DOWN

Bob, WB4APR, asks that the SIG be advised his Internet provider is down and it is possible that your mail to him will be delayed until his access is restored.

Hang in there if you're waiting for replies from Bob.

73 de Boyd W2HOB@aol.com

From bruninga@nadn.navy.mil Sat Dec 02 13:56:05 1995
Received: from greatlakes.nadn.navy.mil (greatlakes.nadn.navy.mil [131.121.9.4]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id NAA27724 for <aprssig@tapr.org>; Sat, 2 Dec 1995 13:56:03 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadn.navy.mil (8.6.12/8.6.12) id OAA00922; Sat, 2 Dec 1995 14:56:26 -0500
Date: Sat, 2 Dec 1995 14:56:25 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
To: aprssig@tapr.org
Subject: PK-900 and DSP-2322
Message-ID: <Pine.SUN.3.91.951202145352.917A-1000000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I made a beta test version of what will be 74d which includes another

test of the band switching for the AEA dual band TNC's. This beta test is on TAPR as betaa.zip. It contains only the file APRS74a.zip. I figured the 74a was harmless... I dont want to use up "d" yet!

Dont waste your time with this unless you have the AEA dueal ports...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

From berlyn@epix.net Sat Dec 02 14:41:26 1995

Received: from epix.net (grape.epix.net [199.224.64.22]) by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id OAA29029 for <aprssig@tapr.org>; Sat, 2 Dec 1995 14:41:23 -0600 (CST)

Received: from clsmppp37.epix.net (clsmppp37.epix.net [199.224.65.37]) by epix.net (8.7.1/8.7) with SMTP id PAA11770 for <aprssig@tapr.org>; Sat, 2 Dec 1995 15:41:16 -0500 (EST)

Message-Id: <199512022041.PAA11770@epix.net>

Comments: Authenticated sender is <berlyn@mailhost.epix.net>

From: "Bernie Andreoli" <berlyn@epix.net>

Organization: epix.net

To: aprssig@tapr.org

Date: Sat, 2 Dec 1995 15:42:25 -5

Subject: Where is Mapfix??.zip program

Reply-to: berlyn@epix.net

X-Confirm-Reading-To: berlyn@epix.net

X-pmrqc: 1

Return-receipt-to: berlyn@epix.net

Priority: normal

X-mailer: Pegasus Mail for Windows (v2.10)

Could someone tell me where to find the mapfix program(s). I looked in the tapr ftp site but could not find it in there. I DL'ed it once but can't remember from where....TNX

Bernie WM3L berlyn@epix.net

From kc5ejk@onramp.net Sat Dec 02 19:47:53 1995

Received: from mailhost.onramp.net (mailhost.onramp.net [199.1.11.3]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id TAA09049 for <aprssig@tapr.org>; Sat, 2 Dec 1995 19:47:50 -0600 (CST)

Received: from [199.1.11.135] (dal35.onramp.net [199.1.11.135]) by mailhost.onramp.net (8.6.12/8.6.5) with SMTP id TAA07849; Sat, 2 Dec 1995 19:47:41 -0600

Message-Id: <v02130500ace6aa6ff49e@[199.1.11.130]>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Date: Sat, 2 Dec 1995 19:48:06 -0600

To: Gordon Fuller <gfuller@netcom.com>

From: kc5ejk@onramp.net (Robert Winingham)

Subject: Re: GPS-45 and KPC-3

Cc: aprssig@tapr.org

>question still remains, Do we need to set BOTH \$GPGGA and \$GPRMC ?

You will get some extra information by having both.

1. I used a different UNP path for one to see how that helps get the information back home.
2. The GGA has height information plus location
The RMC has Speed and direction and the location

Most people, I think, just use RMC

```
-----  
$GPRMC,023742,A,3411.615,N,11807.967,W,003.5,320.7,110495,,*05  
$GPGGA,023742,3411.616,N,11807.967,W,1,00,2.7,368.9,M,-31.4,M,,*7B
```

=== From Sebastian Birnbach Via sci.geo.satellite-nav newsgroup =====

The GPS 45 outputs the following NMEA dataframes in cycles of approx. one every two seconds:

```
$GPGSV  GPS satellites in view  
$PGRME  unknown  
$GPGLL  GPS latitude and longitude  
$PGRMZ  altitude above normal zero  
$PGRMM  selected map datum  
$GPBOD  GPS bearing, origin to destination  
$GPWPL  GPS waypoint location (different WP of track 0 each cycle)  
$GPRMC  GPS recommended minimum specific GPS/TRANSIT data  
$GPRMB  GPS recommended minimum navigation information  
$GPGGA  GPS fix data  
$GPGSA  GPS DOP and active satellites
```

```
-----  
$GPGGA,123519,4807.038,N,01131.324,E,1,08,0.9,545.4,M,46.9,M, , *42  
      HHMMSS,DDMM.MMM,N,DDMM.MMM,E,Q,NS,DOP,ALTI ,U,FF.F,U,?,?*CS
```

```
HHM...:time UTC  
DDM...:degree value of latitude  
N:      north/south (N/S)  
DDD...:degree value of longitude  
E:      east/west (E/W)  
Q:      quality of fix(?)  
ALTI:   integer value of height above sealevel  
U:      units (M=meter)  
?:      unknown  
CS:     checksum
```

```
$GPRMC,123519,A,4807.038,N,01131.324,E,000.0,276.9,150895,000.5,E*73  
      HHMMSS,V,DDMM.MMM,N,DDMM.MMM,E,SPEED,TRACK,DATE ,DEVIA,E*CS
```

```
HHM...:time UTC  
V:      validity flag (V=invalid, A=valid)  
DDM...:degree value of latitude
```

N: north/south (N/S)
DDD...:degree value of longitude
E: east/west (E/W)
SPEED:speed over ground, measured in knots
TRACK:course over ground or track
DATE: current date
DEVIA:magnetic deviation
E: east/west (E/W)

Glad the info helped. If you find something that is interesting
please send.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

From bruninga@nadm.navy.mil Sat Dec 02 20:15:17 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id UAA09757 for <aprssig@tapir.org>; Sat,
2 Dec 1995 20:15:15 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
VAA01236; Sat, 2 Dec 1995 21:15:39 -0500
Date: Sat, 2 Dec 1995 21:15:38 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:4837] Where is Mapfix??.zip program
In-Reply-To: <199512022041.PAA11770@epix.net>
Message-ID: <Pine.SUN.3.91.951202211519.1224C-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

its included with every copy of APRS distro.

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

From seans@magick.net Sat Dec 02 22:55:22 1995
Received: from gp.magick.net (root@gp.magick.net [198.68.11.1]) by sys1.tapir.org
(8.7.2/8.7.2) with SMTP id WAA14558 for <aprssig@tapir.org>; Sat, 2 Dec 1995
22:55:18 -0600 (CST)
Received: by gp.magick.net (Linux Smail3.1.29.1 #3)
id m0tM6SH-000xAvC; Sat, 2 Dec 95 20:55 PST
Date: Sat, 2 Dec 1995 20:55:12 -48000
From: Sean Smithers <seans@magick.net>
Subject: Re: [APRSSIG:4707] Re: GPS simultaneous parallel tracking
To: aprssig@tapir.org
cc: aprssig@tapir.org
In-Reply-To: <199511290146.TAA13955@tbc2.tbcnet.com>
Message-ID: <Pine.3.89.9512022006.B3826-0100000@gp.magick.net>

MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hand held gps is not type accepted or certified for aircraft use. It is to be used for VFR only and not as primary navigation equipment. The major difference between a Magellan Skyblazer and a Trailblazer for example is the inclusion of an internal database and other features that are aviation oriented. Garmin is the only GPS manufacturer bent on making a major distinction by limiting top end speed on a unit. Our first GPS we used in a plane was a Trimble Transpack which worked reasonably well even though it was a surveyor's instrument and had absolutely no internal database for aviation. There is no certification cost to be included in the price of the Aviation Garmin GPS's.

=====
Sean Smithers
Internet: seans@gp.magick.net
CompuServe: 70132,136
Packet: N7ZWU @ WB7VMS.#MURPH.OR.USA.NOAM

On Wed, 29 Nov 1995 jleonard@tbcnet.com wrote:

>
> Unless I'm mistaken, any gear possibly used for air navigation has to be FAA
> type accepted, and the manufacturer has to jump through all kinds of hoops to
> get it approved.
>
>

From edwardwr@skognet.com Sat Dec 02 23:25:24 1995
Received: from skognet.skognet.com (root@skognet.skognet.com [204.248.60.10]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id XAA15306 for <aprssig@tapir.org>; Sat, 2 Dec 1995 23:25:22 -0600 (CST)
Received: from edwardwr.interaccess.com ([204.248.60.40]) by skognet.skognet.com (8.6.12/8.6.9) with SMTP id RAA21365 for <aprssig@tapir.org>; Sat, 2 Dec 1995 17:50:32 -0600
Date: Sat, 2 Dec 1995 17:50:32 -0600
Message-Id: <199512022350.RAA21365@skognet.skognet.com>
X-Sender: edwardwr@skognet.com
X-Mailer: Windows Eudora Version 1.4.3b4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapir.org
From: edwardwr@skognet.com (Ed Rogers)
Subject: New Address

Ive changed internet providers (local call now, and its cheaper too!!) so my old mail has gone to ???
Dave KA9NHL has made the changes on the Northern Illinois APRS Net homepage so we still get that mail OK.
If anyone on sig has sent a note and not gotten a reply its prob. lost in

E-Mail land.
New address edwardwr@skognet.com
73
Ed
N9LCI

"Not only do I live near the Great Lakes, I sail the damm things!!!"

From bruninga@nadm.navy.mil Sat Dec 02 23:54:38 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id XAA16788 for <aprssig@tapir.org>; Sat,
2 Dec 1995 23:54:35 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
AAA01671; Sun, 3 Dec 1995 00:54:59 -0500
Date: Sun, 3 Dec 1995 00:54:58 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapir.org
cc: amsat-bb@amsat.org
Subject: CHANGE 145.79?!
Message-ID: <Pine.SUN.3.91.951203002331.1650A-1000000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Well, I just finished reading the latest AMSAT journal, and it seems
clear to me that the 145.80 frequency for future manned spacecraft is
pretty well established WORLDWIDE.

Maybe we on APRS should move down 5 KHz to 145.785.

THis would give us a 15 KHz split between the users down on 145.77 and
the space guys on 145.80. That should work fine, since 15 KHz splits
have been shown to work just fine on the 2 meter band with modern rigs.

One further advantage is that most SPACE folks should be encouraged to
monitor 145.805 since they will first hear the spacecraft with +3 KHz
doppler anyway. Then they can tune downward if they want to trak the pass.

Many of us have invested heavily in xtals on 145.79. Probably most
XTALS will tune down. Some wont. But now that MFJ is delivering their 5
watt digital radios XTALED on 145.79, we need to make this decision
quickly and get on with it. (MFJ finally agreed to STOCK .79 xtals!
I dont want to see them get burned...)

I know it is after midnight, and this may be a knee jerk reaction, but I
am willing to MOVE. BUT lets all discuss this and see if we all agree?

In conclusion:

* It will work. It solves the conflict. It supports MANNED HAM radio
from space, it will not significantly affect .77 users. It is all-in-all
the only possible solution. Some of us may need to re-crystal, but the
peace-of-mind will be worth it.

* I suggest that APRS stations put out bulletins on their local nets to find out who "cant" change their XTALS. Most nets may be able to shift over night (plus negotiating driving time to the digi sites from their wives).

* To prevent overloading both the AMSAT and APRS nets with redundant traffic, lets assume that EVERYONE agrees. Only reply if you DISSAGREE or have another idea.

* For the sake of discussion, would targeting something like 1 January give everyone a target date, either for "doing" or for "arguing", hi hi.

DE WB4APR in Annapolis MD.

From snabkey@wingsbbs.com Sun Dec 03 03:16:02 1995
Received: from wingsbbs.com ([205.243.16.10]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id DAA26730 for <aprssig@tapr.org>; Sun, 3 Dec 1995 03:15:59 -0600 (CST)
Message-Id: <199512030915.DAA26730@sys1.tapr.org>
Received: from 192.168.0.1_75! by wingsbbs.com
with SMTP (IPAD 0.9.1) id 2572600 ; Sun, 03 Dec 95 04:19:47 UTC
Comments: Authenticated sender is <snabkey@wingsbbs.com>
From: "Sam Nabkey" <snabkey@wingsbbs.com>
To: aprssig@tapr.org
Date: Sun, 3 Dec 1995 04:15:52 -0500
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Subject: Re: [APRSSIG:4842] CHANGE 145.79?!
Return-receipt-to: "Sam Nabkey" <snabkey@wingsbbs.com>
Priority: normal
X-mailer: Pegasus Mail for Windows (v2.23)

Bob,

In Regards to moving from 145.790 - 145.785:

Doesn't REALLY matter here. Most rigs I have on APRS are either EPROM or Dial-up Radios.

IF 5Khz makes THAT much difference to the Manned Missions, then lets change NOW before APRS gets TOO large to be flexible.

I will broadcast a message here on my local VHF net and get the user's input.. I don't think its is going to make any difference here at all..

Better to change now than in another year...

Samuel T. Nabkey - WJ8T

{snabkey@wingsbbs.com}

From rwilkins@uhf.org Sun Dec 03 04:35:46 1995
Received: from ccnet3.ccnet.com (root@ccnet3.ccnet.com [192.215.96.11]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id EAA28752 for <aprssig@tapr.org>; Sun, 3
Dec 1995 04:35:35 -0600 (CST)
Received: (from rwilkins@localhost) by ccnet3.ccnet.com (8.6.12/8.6.12) id
CAA05854; Sun, 3 Dec 1995 02:02:19 -0800
Date: Sun, 3 Dec 1995 02:02:18 -0800 (PST)
From: Bob Wilkins n6fri <rwilkins@uhf.org>
X-Sender: rwilkins@ccnet3
To: aprssig@tapr.org
Subject: Re: [APRSSIG:4842] CHANGE 145.79?!
In-Reply-To: <Pine.SUN.3.91.951203002331.1650A-1000000@greatlakes>
Message-ID: <Pine.SUN.3.91.951203004529.2871A@ccnet3>
X-URL: <http://www.ccnet.com/~rwilkins/>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 3 Dec 1995, Bob Bruninga wrote:

> Well, I just finished reading the latest AMSAT journal, and it seems
> clear to me that the 145.80 frequency for future manned spacecraft is
> pretty well established WORLDWIDE.
>
> Maybe we on APRS should move down 5 KHz to 145.785.

Oh Sure! and then loose two coordinated frequencies!

> This would give us a 15 KHz split between the users down on 145.77 and
> the space guys on 145.80. That should work fine, since 15 KHz splits
> have been shown to work just fine on the 2 meter band with modern rigs.

I don't care how modern your rig is, your modulation is well over a 15
kHz channel, you will also receive hits from the users as well as the
high level nodes on 77. If we ever go to 9600 you will want a 20 kHz
channel at a mininum. Just where do you think you will find a good 9600
channel after you take 79 and 77 and create low speed frequencies out of
them. The Packet Band Plan is on 20 kHz channels for a reason!!!

> One further advantage is that most SPACE folks should be encouraged to
> monitor 145.805 since they will first hear the spacecraft with +3 KHz
> doppler anyway. Then they can tune downward if they want to trak the pass.

Could it be you have a trick up your sleeve? Most sat folks are not
operating at or near the sat band edges...most serious sat users have
software to track and aim their antenna. Way too complex to do this manually.

> Many of us have invested heavily in xtals on 145.79. Probably most
> XTALS will tune down. Some wont. But now that MFJ is delivering their 5
> watt digital radios XTALED on 145.79, we need to make this decision
> quickly and get on with it. (MFJ finally agreed to STOCK .79 xtals!

> I dont want to see them get burned...)

Yes you can "tune down" but most of the professionals running high level wifes, would want to operate on frequency, and not at the whims of temperature and other frequency determining variables.

> I know it is after midnight, and this may be a knee jerk reaction, but I
> am willing to MOVE. BUT lets all discuss this and see if we all agree?

I agree, this needs to be discussed by the digital band planners in each region. Your proposal affects more than Aprs on 79. You are also asking the fellows running 9600 on 77 to also find a new frequency. Lets keep Aprs on a twenty kHz frequency so we have a chance of going 9600 in the future.

> In conclusion:

>

> * It will work. It solves the conflict. It supports MANNED HAM radio
> from space, it will not significantly affect .77 users. It is all-in-all
> the only possible solution. Some of us may need to re-crystal, but the
> peace-of-mind will be worth it.

You plan solves nothing. It creates terrestrial conflict with the neighbors on 77. You of all people, should not promote the interference, harmful or incidental, to other coordinated digital stations.

> * I suggest that APRS stations put out bulletins on their local nets to
> find out who"cant" change their XTALS. Most nets may be able to
> shift over night (plus negotiating driving time to the digi sites from
> their wives).

Bob are you a digital coordinator? May we see your credentials?

> * To prevent overloading both the AMSAT and APRS nets with redundant
> traffic, lets assume that EVERYONE agrees. Only reply if you DISSAGREE
> or have another idea.

I think we should be able to agree as well as disagree in these forums, please do not think you can run the debate one sided. We should be able to hear discussion from either side. The bottom line is Part 97.205 (c).

If you are a band planner everyone must agree!

> * For the sake of discussion, would targeting something like 1 January
> give everyone a target date, either for "doing" or for "arguing", hi hi.

For the sake of discussion, just what is it that is causing you to want to change multiple band plans across the world with out consulting those bodies first? Do you or any of your digital coordinators have any technical complaints of interference? What are these complaints? Has anyone tested with the complainer to see if moving 5 kHz is going to make a difference? Have you investigated other technical means to solve this perceived problem to the amsat system or users?

If it is as bad as you say, why not move down to 71 or 73 or some other digital band plan or coordinated frequency.

For the record, terrestrial packet on other frequencies has worked well with the multiple shuttle frequencies that are in use during flights.

I have no vested interest in 79 or 77 as we use 145.01 for Aprs in a large part of the West. My interest is in proper band planning and coordination. The 79 frequency is a heavily used BBS frequency and 77 is used for multiple dx spotting cluster networks out here. In southern California there are lots of simplex autopatches on 77 and 79.

Lets ask the Aprs folks to contact their local and regional digital and repeater coordinators as listed in the ARRL repeater directory. Lets do this only after we define just what the problems are. You can probably only do this once, before you blow your credibility.

Bob n6fri

Bob Wilkins	home	n6fri@uhf.org
Berkeley, California	work	bwilkins@cave.org
94712-2354	play	n6fri@n6eeg.#nocal.ca.usa.noam

From jleonard@tbcnet.com Sun Dec 03 06:53:20 1995

Received: from tbc2.tbcnet.com (root@tbc2.tbcnet.com [205.199.1.5]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id GAA02058 for <aprssig@tapr.org>; Sun, 3 Dec 1995 06:53:17 -0600 (CST)

Received: from jbleonard.tbcnet.com (jbleonard.tbcnet.com [205.199.1.129]) by tbc2.tbcnet.com (8.6.12/8.6.12) with SMTP id GAA15239 for <aprssig@tapr.org>; Sun, 3 Dec 1995 06:53:07 -0600

Date: Sun, 3 Dec 1995 06:53:07 -0600

Message-Id: <199512031253.GAA15239@tbc2.tbcnet.com>

X-Sender: jleonard@tbcnet.com

X-Mailer: Windows Eudora Version 1.4.4

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

To: aprssig@tapr.org

From: jleonard@tbcnet.com (John B. Leonard)

Subject: Re: [APRSSIG:4842] CHANGE 145.79?!

>Well, I just finished reading the latest AMSAT journal, and it seems
>clear to me that the 145.80 frequency for future manned spacecraft is
>pretty well established WORLDWIDE.
>

>Maybe we on APRS should move down 5 KHz to 145.785.

No problem with N9VJQ and WA9CJN-15/WIDE. Both radios can be tuned.
J Barry Leonard HamRadio N9VJQ/EN510W
Subependymoma 1990

DeKalb IL
E-MAIL: jleonard@tbcnet.com

From n2czf@gate.net Sun Dec 03 08:34:28 1995
Received: from mail1.gate.net (mail1.gate.net [199.227.0.18]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id IAA04613 for <aprssig@tapir.org>; Sun, 3 Dec 1995 08:34:26 -0600 (CST)
From: n2czf@gate.net
Received: from tequesta.gate.net (root@tequesta.gate.net [199.227.0.12]) by mail1.gate.net (8.6.12/8.6.9) with ESMTP id JAA34276 for <aprssig@tapir.org>; Sun, 3 Dec 1995 09:35:33 -0500
Received: from 199.227.125.129 (wpbfl2-1.gate.net [199.227.125.129]) by tequesta.gate.net (8.6.9/8.6.9) with SMTP id JAA32074 for <aprssig@tapir.org>; Sun, 3 Dec 1995 09:34:49 -0500
Date: Sun, 3 Dec 1995 09:34:49 -0500
Message-Id: <199512031434.JAA32074@tequesta.gate.net>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Subject: Re: [APRSSIG:4842] CHANGE 145.79?!
To: aprssig@tapir.org
In-Reply-To: <Pine.SUN.3.91.951203002331.1650A-100000@greatlakes>
X-Mailer: SPRY Mail Version: 04.00.06.17

5 kc may not be too much but I know that it is more than just a crystal. In many states 145.79 was fought for and finally approved for APRS ONLY operation by coordination committies. Going back now after establishment and having a state's band plan changed may be difficult, I know 5 kc is not too much but many did not want us to get .79 EXCLUSIVLY ANYWAY, I can just hear the door of opportunity opening now.....

A lot of work has gone into having .79 OFFICIALLY accepted over the years in many states, I would hate to see all of that work go to pot and need to start the whole cycle again. Might also be an opportunity to have a comittiee change our frequency again when need be on their whim, since whe had already do it before.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

From bruninga@nadn.navy.mil Sun Dec 03 08:47:45 1995
Received: from mail1.gate.net (mail1.gate.net [199.227.0.18]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id IAA04700 for <aprssig@tapir.org>; Sun, 3 Dec 1995 08:47:42 -0600 (CST)
From: n2czf@gate.net
Received: from tequesta.gate.net (root@tequesta.gate.net [199.227.0.12]) by mail1.gate.net (8.6.12/8.6.9) with ESMTP id JAA17886; Sun, 3 Dec 1995 09:48:36 -0500
Received: from 199.227.125.129 (wpbfl2-1.gate.net [199.227.125.129]) by

tequesta.gate.net (8.6.9/8.6.9) with SMTP id JAA62264; Sun, 3 Dec 1995 09:47:40 -0500
Date: Sun, 3 Dec 1995 09:47:40 -0500
Message-Id: <199512031447.JAA62264@tequesta.gate.net>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Subject: [APRSSIG:4842] CHANGE 145.79?!
To: wb4moz@gate.net
Cc: sfoos@ix.netcom.com
X-Mailer: SPRY Mail Version: 04.00.06.17

DO not I REPEAT DO not!! do anything, this is just FYI!!!
I do not believe this is a good idea with the number of digi's already out there and state coordination. Might be easy to change for some, might not be easy for others with EEPROM programable radios and others with crystals BUT MOST OF ALL it is more than a crystal problem. WE ARE COORDINATED!!!! it took work, is some states A LOT of work to get .79 for APRS use only. In addition to all the digi's we are thinking of how about all the INDIVIDUALS who have stand alone trackers that are crystal controled ?? I have 2 myself but I am sure that there are dozens if not hundreds out there at about \$24 for a pair of crstals, not including the time to tune everything, I do not think that they should be forgotten either.

Let Bob know what you think, as a matter of fact let the sig know what you think ASAP. If you are not on the sig thread send me the message and I will forward it. Let all the other APRS users know about this so we can get this taken care of before it becomes a mess!

<---- Begin Forwarded Message ---->
Date: Sun, 3 Dec 1995 00:02:15 -0600 (CST)
Reply-To: aprssig@tapr.org
From: Bob Bruninga <bruninga@nadn.navy.mil>
To: aprssig@tapr.org
Subject: [APRSSIG:4842] CHANGE 145.79?!

Well, I just finished reading the latest AMSAT journal, and it seems clear to me that the 145.80 frequency for future manned spacesraft is pretty well established WORLDWIDE.

Maybe we on APRS should move down 5 KHz to 145.785.

THis would give us a 15 KHz split between the users down on 145.77 and the space guys on 145.80. That should work fine, since 15 KHz splits have been shown to work just fine on the 2 meter band with modern rigs.

One further advantage is that most SPACE folks should be encouraged to monitor 145.805 since they will first hear the spacesraft with +3 KHz doppler anyway. Then they can tune downward if they want to trak the pass.

Many of us have invested heavily in xtals on 145.79. Probably most XTALS will tune down. Some wont. But now that MFJ is delivering their 5 watt digital radios XTALED on 145.79, we need to make this decision

quickly and get on with it. (MFJ finally agreed to STOCK .79 xtals!
I dont want to see them get burned...)

I know it is after midnight, and this may be a knee jerk reaction, but I
am willing to MOVE. BUT lets all discuss this and see if we all agree?

In conclusion:

- * It will work. It solves the conflict. It supports MANNED HAM radio from space, it will not significantly affect .77 users. It is all-in-all the only possible solution. Some of us may need to re-crystal, but the peace-of-mind will be worth it.

- * I suggest that APRS stations put out bulletins on their local nets to find out who"cant" change their XTALS. Most nets may be able to shift over night (plus negotiating driving time to the digi sites from their wives).

- * To prevent overloading both the AMSAT and APRS nets with redundant traffic, lets assume that EVERYONE agrees. Only reply if you DISSAGREE or have another idea.

- * For the sake of discussion, would targeting something like 1 January give everyone a target date, either for "doing" or for "arguing", hi hi.

DE WB4APR in Annapolis MD.

<---- End Forwarded Message ---->

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

From ddoulou@tesla.netline.net Sun Dec 03 08:50:02 1995
Received: from tesla.netline.net (root@tesla.netline.net [204.117.219.2]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id IAA05032 for <aprssig@tapr.org>; Sun, 3 Dec 1995 08:50:00 -0600 (CST)
Received: from ddoulou (tpa03.netline.net [205.160.7.83]) by tesla.netline.net (8.6.12/8.6.9) with SMTP id JAA26322 for <aprssig@tapr.org>; Sun, 3 Dec 1995 09:50:23 -0500
Message-Id: <199512031450.JAA26322@tesla.netline.net>
Comments: Authenticated sender is <ddoulou@mail.netline.net>
From: "Demos Doulou" <ddoulou@tesla.netline.net>
To: aprssig@tapr.org
Date: Sun, 3 Dec 1995 09:51:01 +0005
Subject: Re: [APRSSIG:4842] CHANGE 145.79?!
Priority: normal
X-mailer: Pegasus Mail for Windows (v2.10)

d
> Well, I just finished reading the latest AMSAT journal, and it seems
> clear to me that the 145.80 frequency for future manned spacecraft is
> pretty well established WORLDWIDE.
>
> Maybe we on APRS should move down 5 KHz to 145.785.
>
> THis would give us a 15 KHz split between the users down on 145.77 and
> the space guys on 145.80. That should work fine, since 15 KHz splits
> have been shown to work just fine on the 2 meter band with modern rigs.
>
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> quickly and get on with it. (MFJ finally agreed to STOCK .79 xtals!
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>
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> am willing to MOVE. BUT lets all discuss this and see if we all agree?
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> In conclusion:
>
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> from space, it will not significantly affect .77 users. It is all-in-all
> the only possible solution. Some of us may need to re-crystal, but the
> peace-of-mind will be worth it.
>
> * I suggest that APRS stations put out bulletins on their local nets to
> find out who"cant" change their XTALS. Most nets may be able to
> shift over night (plus negotiating driving time to the digi sites from
> their wives).
>
> * To prevent overloading both the AMSAT and APRS nets with redundant
> traffic, lets assume that EVERYONE agrees. Only reply if you DISSAGREE
> or have another idea.
>
> * For the sake of discussion, would targeteting something like 1 January
> give everyone a target date, either for "doing" or for "arguing", hi hi.
>
> DE WB4APR in Annapolis MD.
>
>
>

Dont do it!!!!!!!

Demos KR4US

From n2czf@gate.net Sun Dec 03 08:52:31 1995

Received: from mail1.gate.net (mail1.gate.net [199.227.0.18]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id IAA05057 for <aprssig@tapir.org>; Sun, 3 Dec 1995 08:52:29 -0600 (CST)
From: n2czf@gate.net
Received: from tequesta.gate.net (root@tequesta.gate.net [199.227.0.12]) by mail1.gate.net (8.6.12/8.6.9) with ESMTP id JAA45398 for <aprssig@tapir.org>; Sun, 3 Dec 1995 09:53:36 -0500
Received: from 199.227.125.129 (wpbf12-1.gate.net [199.227.125.129]) by tequesta.gate.net (8.6.9/8.6.9) with SMTP id JAA10584 for <aprssig@tapir.org>; Sun, 3 Dec 1995 09:52:48 -0500
Date: Sun, 3 Dec 1995 09:52:48 -0500
Message-Id: <199512031452.JAA10584@tequesta.gate.net>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Subject: Re: [APRSSIG:4842] CHANGE 145.79?!
To: aprssig@tapir.org
In-Reply-To: <Pine.SUN.3.91.951203002331.1650A-1000000@greatlakes>
X-Mailer: SPRY Mail Version: 04.00.06.17

I am not posny flames on the net her about changes on .79 any of my opinions on the subject are doing directly to Bob be it good or bad.

I will post my vote on the sig so everyone can get a reasonable idea on how everyone feels.

NEY!! (That means no....)

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

From ddoulou@tesla.netline.net Sun Dec 03 09:04:34 1995
Received: from tesla.netline.net (root@tesla.netline.net [204.117.219.2]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id JAA05423 for <aprssig@tapir.org>; Sun, 3 Dec 1995 09:04:31 -0600 (CST)
Received: from ddoulou (tpa03.netline.net [205.160.7.83]) by tesla.netline.net (8.6.12/8.6.9) with SMTP id KAA26826 for <aprssig@tapir.org>; Sun, 3 Dec 1995 10:05:13 -0500
Message-Id: <199512031505.KAA26826@tesla.netline.net>
Comments: Authenticated sender is <ddoulou@mail.netline.net>
From: "Demos Doulou" <ddoulou@tesla.netline.net>
To: aprssig@tapir.org
Date: Sun, 3 Dec 1995 10:05:53 +0005
Subject: Re: [APRSSIG:4844] Re: CHANGE 145.79?!
Priority: normal
X-mailer: Pegasus Mail for Windows (v2.10)

> d
> On Sun, 3 Dec 1995, Bob Bruninga wrote:
> d

> > THis would give us a 15 KHz split between the users down on 145.77 and
> > the space guys on 145.80. That should work fine, since 15 KHz splits
> > have been shown to work just fine on the 2 meter band with modern rigs.
>
> I don't care how modern your rig is, your modulation is well over a 15
> kHz channel, you will also receive hits from the users as well as the
> high level nodes on 77. If we ever go to 9600 you will want a 20 kHz
> channel at a minumum. Just where do you think you will find a good 9600
> channel after you take 79 and 77 and create low speed frequencies out of
> them. The Packet Band Plan is on 20 kHz channels for a reason!!!
>d>

We have been trying to run a repeater here in Pinellas county with a
15 Khz separation from another repeater in Tampa. Just dosent work.
The repeater receiver is a comerically made radio and when there is any
station operating at any power within 10 miles of the repeater site on
the other frequency, it makes our repeater useless.

15 Khz separation will not work.

Demos KR4US
See Ya
Demos

From ddoulou@tesla.netline.net Sun Dec 03 10:11:54 1995
Received: from tesla.netline.net (root@tesla.netline.net [204.117.219.2]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id KAA07298 for <aprssig@tapr.org>; Sun, 3
Dec 1995 10:11:52 -0600 (CST)
Received: from ddoulou (tpa03.netline.net [205.160.7.83]) by tesla.netline.net
(8.6.12/8.6.9) with SMTP id LAA29528 for <aprssig@tapr.org>; Sun, 3 Dec 1995
11:12:34 -0500
Message-Id: <199512031612.LAA29528@tesla.netline.net>
Comments: Authenticated sender is <ddoulou@mail.netline.net>
From: "Demos Doulou" <ddoulou@tesla.netline.net>
To: aprssig@tapr.org
Date: Sun, 3 Dec 1995 11:13:12 +0005
Subject: Re: [APRSSIG:4849] Re: CHANGE 145.79?!
Priority: normal
X-mailer: Pegasus Mail for Windows (v2.10)

d I am not posny flames on the net her about changes on .79 any of my opinions on
> the subject are doing directly to Bob be it good or bad.
>
> I will post my vote on the sig so everyone can get a reasonable idea on how
> everyone feels.
>
> NEY!! (That means no....)
>
> 73's De Rich N2CZF
> n2czf@gate.net

> Jupiter Farms Florida
>
>
>
>
>
>

I'm with you Rich. My digi is eeprom programable, but its a pain to get it reprogramed. There is one person running crystalled controled in the area, and it would not be good finacialy for him to get new cyrstals.

We had several hams who made 145.79 and near by freqs there "HOME" and they moved when APRS became corridnated for 79. They were not very happy to move the first time, and most likely will not move again.

I say STAY ON 145.790!!!!

Demos KR4US

From amirault@laraby.tiac.net Sun Dec 03 10:28:59 1995
Received: from laraby.tiac.net (root@laraby.tiac.net [199.0.65.80]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id KAA07689 for <aprssig@tapir.org>; Sun, 3 Dec 1995 10:28:56 -0600 (CST)
Received: (from amirault@localhost) by laraby.tiac.net (8.6.9/8.6.6.Beta9) id LAA01386; Sun, 3 Dec 1995 11:28:53 -0500
Date: Sun, 3 Dec 1995 11:28:53 -0500 (EST)
From: Richard Amirault <amirault@laraby.tiac.net>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:4821] APRS Live Round table via Internet ?
In-Reply-To: <199512020327.WAA42664@tequesta.gate.net>
Message-ID: <Pine.BSF.3.91.951203112408.1119A-100000@laraby.tiac.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 1 Dec 1995 n2czf@gate.net wrote:

> With so many APRS users on Internet now how about letting everyone
> in two areas TALK with each other via a local repeater using Internet
> as a link!
>
> No expensive equipment is needed and regular sig members can set up a
> net at a predetermined time between two active areas so ideas can be
> exchanged.
> All that is needed is Internet Phone, permission to use a repeater that can
> cover most of the local APRS area and a VOX BOX from Radio Shack.

(snip)

"No expensive equipment is needed"....your definition of 'expensive' is apparently not the same as mine. Remember, just beacause someone is on the

internet, does NOT mean that they can use Internet Phone.

Richard Amirault
amirault@tiac.net

N1JDU
"Go Fly A Kite"

Boston, Massachusetts USA

From DDOBBINS@aol.com Sun Dec 03 11:35:34 1995
Received: from mail06.mail.aol.com (mail06.mail.aol.com [152.163.172.108]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id LAA09925 for <aprssig@tapr.org>; Sun, 3
Dec 1995 11:35:32 -0600 (CST)
From: DDOBBINS@aol.com
Received: by mail06.mail.aol.com (8.6.12/8.6.12) id MAA13247 for aprssig@tapr.org;
Sun, 3 Dec 1995 12:35:00 -0500
Date: Sun, 3 Dec 1995 12:35:00 -0500
Message-ID: <951203123458_123658866@mail06.mail.aol.com>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:4851] Re: CHANGE 145.79?!

I layeth here, on the beach, in Paradise,
reminding myself it's cold somewhere,
and now shaking my head laterally,
thinking of changing from 145.79????

Negativo.

Time to roll over. Aloha, Dave.

From gerry@cs.tamu.edu Sun Dec 03 11:42:48 1995
Received: from cs.tamu.edu (clavin.cs.tamu.edu [128.194.130.106]) by sys1.tapr.org
(8.7.2/8.7.2) with SMTP id LAA10016 for <aprssig@tapr.org>; Sun, 3 Dec 1995
11:42:46 -0600 (CST)
Received: from solar.cs.tamu.edu (2961@solar.cs.tamu.edu [128.194.132.1]) by
cs.tamu.edu (8.6.10/8.6.4) with ESMTP id LAA03004 for <aprssig@tapr.org>; Sun, 3
Dec 1995 11:42:09 -0600
From: Gerald J Creager <gerry@cs.tamu.edu>
Received: (gerry@localhost) by solar.cs.tamu.edu (8.6.10/8.6.4) id LAA11170 for
aprssig@tapr.org; Sun, 3 Dec 1995 11:42:05 -0600
Message-Id: <199512031742.LAA11170@solar.cs.tamu.edu>
Subject: Re: [APRSSIG:4844] Re: CHANGE 145.79?!
To: aprssig@tapr.org
Date: Sun, 3 Dec 1995 11:42:04 -0600 (CST)
In-Reply-To: <Pine.SUN.3.91.951203004529.2871A@ccnet3> from "Bob Wilkins n6fri" at
Dec 3, 95 04:46:16 am
X-Mailer: ELM [version 2.4 PL24]
Content-Type: text

Bob Wilkins n6fri sez:

>

> On Sun, 3 Dec 1995, Bob Bruninga wrote:

>

> > Well, I just finished reading the latest AMSAT journal, and it seems

> > clear to me that the 145.80 frequency for future manned spacecraft is

> > pretty well established WORLDWIDE.
> >
> > Maybe we on APRS should move down 5 KHz to 145.785.
>
> Oh Sure! and then loose two coordinated frequencies!
>
> > THis would give us a 15 KHz split between the users down on 145.77 and
> > the space guys on 145.80. That should work fine, since 15 KHz splits
> > have been shown to work just fine on the 2 meter band with modern rigs.
>
> I don't care how modern your rig is, your modulation is well over a 15
> kHz channel, you will also receive hits from the users as well as the
> high level nodes on 77. If we ever go to 9600 you will want a 20 kHz
> channel at a minumum. Just where do you think you will find a good 9600
> channel after you take 79 and 77 and create low speed frequencies out of
> them. The Packet Band Plan is on 20 kHz channels for a reason!!!

If, in fact, you're filling the entire 30 khz, OF A 10 KHz WIDE SIGNAL, you're overmodulating. Period. Most packet users without test equipment just tweak 'til someone sees data and call it good.

That said, your comment with 9600 is wwell taken. THAT said, there IS no universal bandplan across the US for packet or voice repeaters. Can't be, very well either. Before you guys grab the ARRL repeater directory, I recommend that you peruse it until you find the point that mentions local coordinators.

> Could it be you have a trick up your sleeve? Most sat folks are not
> operating at or near the sat band edges...most serious sat users have
> software to track and aim their antenna. Way too complex to do this manually.

What he's talking about is the move of SAREX to 145.80... as well as Mir's occasional use of the frequency.

> > I know it is after midnight, and this may be a knee jerk reaction, but I
> > am willing to MOVE. BUT lets all discuss this and see if we all agree?
>
> I agree, this needs to be discussed by the digital band planners in each
> region. Your proposal affects more than Aprs on 79. You are also asking
> the fellows running 9600 on 77 to also find a new frequency. Lets keep
> Aprs on a twenty kHz frequency so we have a chance of going 9600 in the
> future.

Point well taken. The use of 145.79 was not well coordinated. We're at a point where we can call on the local coordinators with a reasonable user base and move. And make a case for a unified frequency across the country. IF we work within the system.

> Lets ask the Aprs folks to contact their local and regional digital and
> repeater coordinators as listed in the ARRL repeater directory. Lets do
> this only after we define just what the problems are. You can probably
> only do this once, before you blow your credibility.

OK, folks, here is the challenge: Find your local coordinating body and work with them to GET A COORDInATED APRS FREQUENCY. Impress upon them why it cannot or should not be one of the heavily used packet channels. Maybe, demonstrate it to them. bring some of your public service tracks with you and show 'em on the laptop. Bring a tracker with you and show them that. It's a show-&-tell opportunity. And one that will be giving more credibility to the system.

73, gerry N5JXS
gerry@cs.tamu.edu

From birksd@cadvision.com Sun Dec 03 11:43:49 1995
Received: from huey.cadvision.com (huey.cadvision.com [204.50.1.2]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id LAA10035 for <aprssig@tapir.org>; Sun, 3 Dec 1995 11:43:43 -0600 (CST)
Received: from cadb169.cadvision.com by huey.cadvision.com (AIX 4.1/UCB 5.64/4.04.tri.dcx)
id AA43788; Sun, 3 Dec 1995 10:40:15 -0700
Date: Sun, 3 Dec 1995 10:40:15 -0700
Message-Id: <9512031740.AA43788@huey.cadvision.com>
X-Sender: birksd@huey.cadvision.com
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapir.org
From: birksd@cadvision.com (David R. Birks)
Subject: Re: [APRSSIG:4842] CHANGE 145.79?!

>Bob wrote:

Well, I just finished reading the latest AMSAT journal, and it seems
>clear to me that the 145.80 frequency for future manned spacecraft is
>pretty well established WORLDWIDE.
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>XTALS will tune down. Some won't. But now that MFJ is delivering their 5
>watt digital radios XTALD on 145.79, we need to make this decision
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>I don't want to see them get burned...)
>
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>their wives).

>

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>traffic, lets assume that EVERYONE agrees. Only reply if you DISSAGREE
>or have another idea.

>

>* For the sake of discussion, would targeting something like 1 January
>give everyone a target date, either for "doing" or for "arguing", hi hi.

>

>DE WB4APR in Annapolis MD.

>

>-----
>My \$.02 worth of comments:

I am not flaming anybody here, just voicing my opinion on this subject.

I would rather not change from 145.79 either. I have 3 EPROM type radios that are set up for 145.55, 145.79, 145.84R/144.45T etc. and it would cost me about \$150 to change ANYTHING on those radios.

I also run a crystal controlled rig for my mobile tracker and \$24.00 would be an optimistic estimate for obtaining crystals for that radio. That of course does not include the costs of getting it re-tuned if needed.

Another radio is diode programmable so that is not too big of a deal to re-work and set up on another frequency, but why?

I co-ordinated 145.79 over 2 years ago to be the province wide APRS frequency. I did this to try to achieve some commonality with the rest of North America, because I didn't want to see the hassle of having a repeater directory just to find out which frequency I (or anybody else) should have to be on when travelling around the country. Besides, I have more than enough money invested in GPS's, computers, TNC's and the like that the idea of relatively cheap, crystal controlled or EPROM radios appealed to me. There is a lot less flak from my wife if I can honestly say "That radio only cost \$50 at the Flea Market" as opposed to \$500 or \$1000 for a more modern fully tunable radio with all the bells and whistles. It is overkill to run a modern radio on one frequency for a dedicated purpose. I can't afford to do that, neither can anybody else that I know.

I was approached this past summer to move and I said "Why?" The answer, because 145.79 is reserved for digital modes. I said, what do you think APRS is? Some people have said that 145.79 is too close to the Satellite Band, interfering

with Oscar 13 etc. If 145.79 is too close, isn't 145.80 for Manned Missions even closer, particularly when you consider the effects of Doppler Shift on their signal. Why did AMSAT pick such a stupid choice for Manned Missions? I was happy working MIR on 145.55 and the Shuttles on the previously used frequencies. So happy in fact, that I have 3 radios programmed for those frequencies!

The bottom line: I don't want to move from 145.79. If I have to move though, I will, but it had better be to a permanent frequency allocation for this use alone. I have too much invested to change everything at some petty beaurocrat's slightest whim.

73 de Dave VE6MJR
Calgary, Alberta
E-Mail birksd@cadvision.com
73 de Dave

From JAgrelo@aol.com Sun Dec 03 11:55:40 1995
Received: from mail06.mail.aol.com (mail06.mail.aol.com [152.163.172.108]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id LAA10456 for <aprssig@tapr.org>; Sun, 3 Dec 1995 11:55:38 -0600 (CST)
From: JAgrelo@aol.com
Received: by mail06.mail.aol.com (8.6.12/8.6.12) id MAA20630 for aprssig@tapr.org; Sun, 3 Dec 1995 12:55:06 -0500
Date: Sun, 3 Dec 1995 12:55:06 -0500
Message-ID: <951203125505_123671876@mail06.mail.aol.com>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:4842] CHANGE 145.79?!

To me, it appears that there is no other choice than to change our frequency, but not 145.785.

Because there is a 4-6 week lead time on our custom transmitter crystals, it would be best to make this decision sooner. When we run out of 145.790 crystals for the VFC400 & HPVFC transmitters, we will offer the new frequency what ever that may be, this should happen around Jan. 1st. or sooner.

Bob, like MFJ we don't want to get burned either, we still have quite a few crystals left for 145.790. and there not cheap either at about \$8 bucks each.

73 de Joe N200C

Joe Agrelo/N200C
Agrelo Engineering
Ph (518)381-1057
Fx (518)381-1058

E-mail- jagrelo@aol.com

In the Web <http://home.navisoft.com/agrelo/ae.htm>
Designer and Manufacturers of intelligent microprocessor based Doppler
and talking products
Experts in Microchip and Motorola processors

Cruise Missile Coordinates 42 47.427N, 073 56.525W

From elekesa@cadvision.com Sun Dec 03 12:43:06 1995
Received: from huey.cadvision.com (huey.cadvision.com [204.50.1.2]) by
sys1.tapir.org (8.7.2/8.7.2) with SMTP id MAA11848 for <aprssig@tapir.org>; Sun, 3
Dec 1995 12:43:02 -0600 (CST)
Received: from cadb88.cadvision.com by huey.cadvision.com (AIX 4.1/UCB
5.64/4.04.tri.dcx)
id AA28584; Sun, 3 Dec 1995 11:39:36 -0700
Date: Sun, 3 Dec 1995 11:39:36 -0700
Message-Id: <9512031839.AA28584@huey.cadvision.com>
X-Sender: elekesa@huey.cadvision.com
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapir.org
From: elekesa@cadvision.com (aaron elekes)
Subject: Re: CHANGE 145.79?!

I think you guys are all NUTS! Most of my radio equipment is
crystal controlled! Why should I change my equipment to meet someone
elses? We have set the frequency at 145.790 both in Canada and the U.S.
Now we want to F*** around with it! NOT! It is more trouble to move the
frequency to meet the needs of AMSAT. Hell.... let them move..... cause
I'm not!

My 2 cents worth!
De Aaron Elekes
VE6FXR
E-mail- ve6fxr@amsat.org

From rwf@mindspring.com Sun Dec 03 13:16:08 1995
Received: from borg.mindspring.com (root@borg.mindspring.com [204.180.128.14]) by
sys1.tapir.org (8.7.2/8.7.2) with SMTP id NAA12677 for <aprssig@tapir.org>; Sun, 3
Dec 1995 13:16:05 -0600 (CST)
Received: from rwf.mindspring.com [168.121.44.154] by borg.mindspring.com
with SMTP id OAA15473 for <aprssig@tapir.org>; Sun, 3 Dec 1995 14:15:59 -0500
Date: Sun, 3 Dec 1995 14:15:59 -0500
Message-Id: <199512031915.OAA15473@borg.mindspring.com>
X-Sender: rwf@mindspring.com (Unverified)
X-Mailer: Windows Eudora Version 2.1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapir.org
From: rwf <rwf@mindspring.com>
Subject: Re: [APRSSIG:4826] MKMAPKKE

Bill I think it is kswaggart@aol.com not kswaggert@aol.com

At 07:24 AM 12/2/95 -0600, you wrote:

>Ken Swaggert posted a message here stating that he had posted an updated
>version of MKMAPKKE on tapr but i sure can't find it, then i attempted to send
>Ken a e-mail message and it was returned by my postmaster saying there is no
>address like kswaggert@aol.com. Ok Ken whats up Hi...

>

>Bill KE4EER

>

>

>

From n0vkg@n0eir.ampr.org Sun Dec 03 13:33:52 1995

Received: from hydra.carleton.ca (root@hydra.carleton.ca [134.117.12.18]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id NAA13572 for <aprssig@tapr.org>; Sun, 3
Dec 1995 13:33:48 -0600 (CST)

Received: from n0eir.ampr.org (n0eir.ampr.org [44.46.65.2]) by hydra.carleton.ca
(8.6.9/8.6.9) with SMTP id OAA06707 for <aprssig%tapr.org@hydra.ampr.org>; Sun, 3
Dec 1995 14:33:13 -0500

X-BBS-Msg-Type: P

Date: Sun, 03 Dec 95 13:12:29 CST

Message-Id: <1358@n0eir.ampr.org>

From: n0vkg@n0eir.ampr.org (Todd Hartzel)

To: aprssig@tapr.org

Subject: Change 145.790

Message-Id: 1358_n0eir

From: n0vkg@n0eir.#stl.mo.usa.noam (Todd Hartzel)

To: aprssig@tapr.org

Greetings,

Name here is Todd. Here in St Louis Mo we just got 145.790 as the local
APRS channel. We were using 144.970 for a long time. APRS is growing here.
A WIDE digi was installed in Edwardsville, Il. And one planned for
Belleville, Il. Others are being planned for western suburbs of St Louis.

I think it would be a mistake to change 145.790. I'm sure in alot of
other regions in country, APRS may just be getting off the ground as it is here
Since 145.790 has been used for APRS for along time, and is well established
, espeicallly on East coast, and the Space allocations haven't yet begun
operations on 145.800, I think they should re-allocate the Space channels.

Keep this in mind, APRS is currently using 145.790 in alot of areas.
However MIR and others are using 145.550 and others to-this-day.
To-put-it-simple, APRS was there first. I think that future Space allocations
should be designed around services already in place <period>.
At least in terms of 145.800 <period>.
Having those planned for 145.800 put on 145.815 or 145.820 isn't going to be
as much as a problem as moving the WHOLE APRS NETWORK off of 145.790

Just remember, APRS is coordinated on 145.790. It is being used for APRS.

Its intended purpose. And it is growing rapidly. It is a true network. The MIR and other space services have been using other channels for a long time and are now planning to move to a channel that will cause interference with the APRS NETWORK.

In any case, I got my two-cents worth in. I like APRS. Its popularity here in St Louis is growing. And hope it continues. Being on 145.790 as opposed to 144.970 offers alot of advantages here. 144.970 is a packet network channel. Linked into the WAN network here. 145.790 is independant. No packet-network nodes on it. And none planned. Just more WIDE digis.

73 de todd / n0vkg

packet address: n0vkg @ n0eir.#stl.mo.usa.na
tcpip address: n0vkg % n0vkg @ n0eir.ampr.org
internet address: n0vkg @ n0eir.ampr.org

From moyers@ibm.net Sun Dec 03 14:05:19 1995

Received: from smtp-gw01.ny.us.ibm.net ([165.87.194.252]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id OAA14531 for <aprssig@tapir.org>; Sun, 3 Dec 1995 14:05:17 -0600 (CST)

From: moyers@ibm.net

Received: (from uucp@localhost) by smtp-gw01.ny.us.ibm.net (8.6.9/8.6.9) id UAA33893 for <aprssig@tapir.org>; Sun, 3 Dec 1995 20:05:14 GMT

Received: from slip166-72-241-74.tn.us.ibm.net(166.72.241.74) by smtp-gw01.ny.us.ibm.net via smap (V1.3mjr)

id smakUkCzR; Sun Dec 3 20:04:54 1995

Received: by localhost (IBM OS/2 SENDMAIL VERSION 1.3.14/2.12um) id AA0064; Sun, 03 Dec 95 15:05:43 -0800

Message-Id: <9512032305.AA0064@localhost>

Mime-Version: 1.0

Date: Sun, 03 Dec 95 14:42:27 +0000

To: aprssig@tapir.org

Subject: Re: [APRSSIG:4842] CHANGE 145.79?!

X-Mailer: Ultimedia Mail/2 Lite, IBM T. J. Watson Research Center

Content-Id: <62_70_1_818019747>

Content-Type: text/plain; charset="US-ASCII"

Content-Transfer-Encoding: 7bit

> Well, I just finished reading the latest AMSAT journal, and it seems
> clear to me that the 145.80 frequency for future manned spacecraft is
> pretty well established WORLDWIDE.

More poor planning by AMSAT.

>

> Maybe we on APRS should move down 5 KHz to 145.785.

NEGATIVE!... This Violates the Band plans for most regions. More specifically SERA's bandplan. Which I believe the state of Virginia, along with 8 other states, has as their coordinating body. SERA adpoted many years ago a 20 Kc (KHz) seperation for

packet
frequencies, on the advise of many Packet users/coordinators in the member states.
I
regret that use of 145.790 causes problems for AMSAT/SAREX but this was discussed
at the
first SAREX mission. 145.79 is used daily, 145.80 however is only used durring
SAREX
missions and not on a continuous basis then. So why completely restructure the
bandplans
for the whole world for a USER (SAREX) who is parttime at best. The easiest cure
if it's
just 5 Kc's would be for SAREX to move up freq 5 or 10.

Now lets get to the brass facts. Most high profile digis are XTAL controlled.
Yes, most
can be shifted 5 Kc's but the Xtal's are not nearly as stable in that state.
Secondly,
XTAL's cost \$25 - \$50 a set. Multiplied by several digi's + time to install and
realign
the radio's it won't take long to achieve \$\$\$\$\$\$\$\$ that could be better spent on
improving the network. I have one digi up now, and just ordered more XTAL's for
some
more radio's a few weeks ago. NOW IS NOT THE TIME TO WORRY ABOUT SAREX, THAT TIME
WAS
YEARS AGO WHEN 145.79 WAS AGREED TO. AMSAT should have looked at the bandplan's
better.
Of course they are also trying to coordinate this with the European
plan's.....that's
life.

Bob, I am curious though, how does this tie into your AMSAT/APRS progamming you
have
been working on and tested a couple of misssions back??

73, and my vote is NO, and will shut my nodes down before moving to 145.785.

John Moyers * ARS: N4QEA * Internet: moyers@ibm.net
Packet Radio: N4QEA@N4QEA.#METN.TN.USA.NA

From ke4eer@ro.com Sun Dec 03 14:25:45 1995
Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tapir.org
(8.7.2/8.7.2) with SMTP id OAA15022 for <aprssig@tapir.org>; Sun, 3 Dec 1995
14:25:43 -0600 (CST)
Received: from ts1p16.ro.com (ts1p16.ro.com [205.216.92.36]) by sh1.ro.com
(8.6.9/8.6.9) with SMTP id PAA13756 for <aprssig@tapir.org>; Sun, 3 Dec 1995
15:33:35 -0600
Message-Id: <199512032133.PAA13756@sh1.ro.com>
X-Mailer: InternetWorks Mail and News 1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sun, 03 Dec 1995 14:25:24
From: ke4eer@ro.com (William Nolle)

To: aprssig@tapr.org
Subject: Re: [APRSSIG:4846] Re: CHANGE 145.79?!

Bob as you well know the problems i had getting 145.790 coordinated here in North Alabama it took all of 16 to 18 month's to convince the thick headed hams around herethat APRS was usefull and should be just as much a part of ham radio then any other digital mode. You know you heard part of it traveling trough this area during your trip to Florence i'm not about to go trough that again after those thick headed hams finally aggree that YES maybe APRS does work and does have more users then just KE4EER that new ham in Hazel green. I haven't had any complaints about it being to close to another frequency to cause interfearence. Realy i always get told by digi owners in Alabama 145.790 doesn't need to be coordinated so maybe those users will vote for the move, but i have coordination papers for North Alabama and don't want to change.

So i Vote STAY on 145.790

Bill KE4EER

From w2g3zfej@unix.asb.com Sun Dec 03 15:23:57 1995
Received: from UNiX.asb.com (root@UNiX.asb.com [165.254.128.2]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id PAA16837 for <aprssig@tapr.org>; Sun, 3 Dec 1995 15:23:54 -0600 (CST)
Received: from asb15 (sls5.asb.com [165.254.128.15]) by UNiX.asb.com (8.6.9/8.6.9) with SMTP id QAA14838 for <aprssig@tapr.org>; Sun, 3 Dec 1995 16:25:16 -0600
Message-Id: <199512032225.QAA14838@UNiX.asb.com>
X-Sender: w2g3zfej@unix.asb.com
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sun, 03 Dec 1995 16:21:20 -0500
To: aprssig@tapr.org
From: w2g3zfej@unix.asb.com (bob)
Subject: Re: [APRSSIG:4827] MKMAPKKE.ZIP now at tapr
X-Mailer: <PC Eudora Version 1.4>

Hi Ken

Nice job on the program, however, is there a bug in the use of the '-' before entering the range? When I used it today the '-' didn't make any difference, just got lots of features and the program bombed out. I tried the mkmaphk1 and that worked OK.

Any ideas?

73 de bob w2/g3zfej
w2g3zfej@unix.asb.com

>Don't know what happend to the first upload. Just uploaded again to:
>
>tapr.org:/tapr/SIG/aprssiG/upload at 0700 PST, Saturday,2 DEC. This time I

>checked the directory and confirmed it is there. Strange.
>
>I'm still here at kswaggart@aol.com
>
>73, Ken, W7KKE
>
>

From dbarrow@omnifest.uwm.edu Sun Dec 03 15:49:43 1995
Received: from uwm.edu (uwm.edu [129.89.6.2]) by sys1.tapir.org (8.7.2/8.7.2) with
ESMTP id PAA17735 for <aprssig@tapir.org>; Sun, 3 Dec 1995 15:49:41 -0600 (CST)
Received: from omnifest.uwm.edu (omnifest.uwm.edu [129.89.70.58]) by uwm.edu
(8.7.1/8.6.9) with SMTP id PAA04429 for <aprssig@tapir.org>; Sun, 3 Dec 1995
15:49:37 -0600 (CST)
Received: by omnifest.uwm.edu; (5.65/1.1.8.2/17Sep94-0940PM)
id AA23060; Sun, 3 Dec 1995 15:49:36 -0600
Date: Sun, 3 Dec 1995 15:49:36 -0600
From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Message-Id: <9512032149.AA23060@omnifest.uwm.edu>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:4841] New Address

Ed,

I've tried to send you 1/2 dozen messages.

I'd like to thank you for the Grayslake seminar.

I get down to Chicago occasionally for a computer meeting -
What repeater should I try you on????

I am the Frequency Coordinator for Wisconsin. Do you need to
contact the FC for IL? I can get you his address. jbruck@heartland.
bradley.edu (sorry for the line split).

What can I do to help?

Dick Isley is on mcs - sounds like a VERY good deal!

73 de Dave Barrow, N9UNR
FC-WI WAR-MAAC
n9unr@execpc.com (preferred) or dbarrow@omnifest.uwm.edu

From dbarrow@omnifest.uwm.edu Sun Dec 03 16:04:43 1995
Received: from uwm.edu (uwm.edu [129.89.6.2]) by sys1.tapir.org (8.7.2/8.7.2) with
ESMTP id QAA18159 for <aprssig@tapir.org>; Sun, 3 Dec 1995 16:04:40 -0600 (CST)
Received: from omnifest.uwm.edu (omnifest.uwm.edu [129.89.70.58]) by uwm.edu
(8.7.1/8.6.9) with SMTP id QAA11215 for <aprssig@tapir.org>; Sun, 3 Dec 1995
16:04:38 -0600 (CST)
Received: by omnifest.uwm.edu; (5.65/1.1.8.2/17Sep94-0940PM)
id AA19496; Sun, 3 Dec 1995 16:04:37 -0600
Date: Sun, 3 Dec 1995 16:04:37 -0600
From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Message-Id: <9512032204.AA19496@omnifest.uwm.edu>

To: aprssig@tapr.org
Subject: Re: [APRSSIG:4850] Re: CHANGE 145.79?!

Demos,

Glad to hear from another Pinnellan. I practiced law in Pinellas Park for 12 years before moving to Wisconsin.

Please keep in touch. I miss all the nice folks down there.

Merry Christmas from Dave Barrow, N9UNR
FC-WI WAR-MACC
n9unr@execpc.com (preferred) or dbarrow@omnifest.uwm.edu

From n4uls@ix.netcom.com Sun Dec 03 16:06:05 1995
Received: from ix8.ix.netcom.com (ix8.ix.netcom.com [199.182.120.8]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id QAA18185 for <aprssig@tapr.org>; Sun, 3 Dec 1995 16:06:03 -0600 (CST)
Received: from by ix8.ix.netcom.com (8.6.12/SMI-4.1/Netcom) id OAA25293; Sun, 3 Dec 1995 14:05:26 -0800
Date: Sun, 3 Dec 1995 14:05:26 -0800
Message-Id: <199512032205.OAA25293@ix8.ix.netcom.com>
From: n4uls@ix.netcom.com (Jack Anderson)
Subject: Re: [APRSSIG:4842] CHANGE 145.79?!
To: aprssig@tapr.org

You wrote:

>Maybe we on APRS should move down 5 KHz to 145.785.

I think 15 KHz spacing (between .77 and .785) is just too close for urban areas for this to work without creating new interference problems. Consider the direct line-of-sight paths that exist between APRS digipeaters installed at "real" radio sites and corresponding .77 nodes or BBS equipment on similar "real" radio sites. I'd be more concerned about the systems on .77 interfering with the APRS network, since it is likely that those systems would be running much higher power levels than the typical APRS station or digi.

It would probably accomplish more if we were all to ensure that the APRS network remains a "low power" network by keeping RF power output levels at digipeaters at five watts, and closely watching our deviation levels. Many of us do not have access to deviation meters or service monitors, but there is a way to set deviation adequately without test equipment. Simply monitor the AFSK audio level on another receiver and bring up the level until it doesn't go up any more, then, lower it until the audio level is significantly lower (about 3 dB) than it was at its maximum. It will still work just as good for us, perhaps even better - less RF gets spread outside of the limits of the receiver's IF filters.

Jack

From dbarrow@omnifest.uwm.edu Sun Dec 03 16:14:36 1995
Received: from uwm.edu (uwm.edu [129.89.6.2]) by sys1.tapr.org (8.7.2/8.7.2) with

ESMTP id QAA18270 for <aprssig@tapr.org>; Sun, 3 Dec 1995 16:14:33 -0600 (CST)
Received: from omnifest.uwm.edu (omnifest.uwm.edu [129.89.70.58]) by uwm.edu
(8.7.1/8.6.9) with SMTP id QAA14205 for <aprssig@tapr.org>; Sun, 3 Dec 1995
16:14:24 -0600 (CST)
Received: by omnifest.uwm.edu; (5.65/1.1.8.2/17Sep94-0940PM)
id AA06430; Sun, 3 Dec 1995 16:14:24 -0600
Date: Sun, 3 Dec 1995 16:14:24 -0600
From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Message-Id: <9512032214.AA06430@omnifest.uwm.edu>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:4854] Re: CHANGE 145.79?!

Gary and I are coordinators. We can pass your messages to the
coordinator's remailer.....

What do you want?

There is NO country-wide band-plan. If you need something NOW
is the time to ask for it - before there is mandatory (whatever).

Let us know - we really want to help.

73 de Dave Barrow, N9UNR
FC-WI WAR-MACC
n9unr@execpc.com (preferred) or dbarrow@omnifest.uwm.edu

From bruninga@nadm.navy.mil Mon Dec 04 08:15:29 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id IAA15305 for <aprssig@tapr.org>; Mon,
4 Dec 1995 08:15:26 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
WAA03499; Sun, 3 Dec 1995 22:40:58 -0500
Date: Sun, 3 Dec 1995 22:40:57 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapr.org
Subject: 145.80 Manned Space frequency.
Message-ID: <Pine.SUN.3.91.951203211750.3293B-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I guess in my earlier posting I did not explain adequately the "problem".
I subscribe to both the APRS and the AMSAT sig and so have been watching
the debate over the last two years about the emergence of 145.80 as the
only workable worldwide frequency for Manned Space communications. When
I first heard about it, I argued for them to move up 5 kHz to be INSIDE
the satellite band, but the legacy of 2 years of diplomatic wrangling has
decided on 145.80 for a million reasons apparently. Here is one stab
at a summary:

- * Most of the rest of the world only has a 2 MHz wide 2 meter band NOT
4 MHz as we enjoy here. The repeater frequency of 145.80 (-600)
after years of work, has finally been abandoned by terrestrial
users in Europe for the sake of international space coordination.

As you can imagine, you cannot sit down and negotiate a worldwide single frequency with every local coordinating body, they had to work from the top down working with the national organizations. You ask, why not let them use that freq over there, and 145.55 over here?

* The space stations will be within radio range of just about everyone on earth 6 times a day, 24 hours a day 365 days a year.

* They complete 15 orbits a day and go completely around the earth in 100 minutes. It is impractical to expect them to QSY every 20 minutes. Yes YOU can do that under contest conditions, but not day-in-day-out for the rest of your life...

So, here we sit on 145.79. The SPACE station will not interfere much with us, but we will surely destroy any practical use of 145.80 for the space stations and for all of us who wish to play with the space stations. That is the "problem". It is NOT today's problem, but it is TOMORROW'S problem.

As we see more growth on APRS, we are heading pell-mell toward a collision. YES, moving down 5Khz to 145.785 would mess up most US band plans. And would squeeze the top two digital channels to 15 KHz channels. But in the long run, having two 15KHz channels is better than losing ONE! (The APRS one!)

Of course the 15KHz vs 20KHz controversy still rages, but in our area, there are 53 two meter repeaters operating on 15 KHz channels quite well. It all depends on your rig. Rather than arguing the emotions, please test your radio. Just tune 15 KHz above or below your local REPEATERS and see if you hear splatter. If you hear nothing, or another repeater, then you have just proved that 15KHz splits work with decent radios. 20 year old radios will NOT pass this test. Most modern ones WILL.

Most commercial services are going to 12.5 KHz channels. IT DOES WORK.

Yes, this 15Khz split channel may force us to a future limit of 4800 baud on 145.77 and .785.. That is the PRICE. But what will be the cost of conflict for the rest of our lives over 80 and 79?

SO. There's the problem. (and what I thought was a solution)... oh well.

Forget the 1 January target date. That WAS stupid on my part. But if you think you have coordinated 145.79, then GO TO YOUR COORDINATING BODY AND ASK THEM WHAT THEY ARE GOING TO DO ABOUT THE IARU INTERNATIONAL COMMITMENT TO 145.80. More than likely nothing. And we are going to get burned in the long run...

From wricharz@ix.netcom.com Mon Dec 04 08:16:25 1995

Received: from ix8.ix.netcom.com (ix8.ix.netcom.com [199.182.120.8]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id IAA15366 for <aprssig@tapir.org>; Mon, 4 Dec 1995 08:16:23 -0600 (CST)

Received: from ix-cha-nc1-30.ix.netcom.com by ix8.ix.netcom.com (8.6.12/SMI-4.1/

Netcom)

id UAA20013; Sun, 3 Dec 1995 20:59:26 -0800

Message-Id: <199512040459.UAA20013@ix8.ix.netcom.com>

X-Sender: wricharz@ix.netcom.com

X-Mailer: Windows Eudora Light Version 1.5.2

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Date: Sun, 03 Dec 1995 23:58:32 -0500

To: aprssig@tapr.org

From: William Richarz <wicharz@ix.netcom.com>

Subject: Re: [APRSSIG:4862] Re: MKMAPKKE.ZIP now at tapr

At 03:30 PM 12/3/95 -0600, you wrote:

>Hi Ken

>

>Nice job on the program, however, is there a bug in the use of the '-'
>before entering the range? When I used it today the '-' didn't make any
>difference, just got lots of features and the program bombed out. I tried
>the mkmapkh1 and that worked OK.

>

>

>73 de bob w2/g3zfy

>w2g3zfy@unix.asb.com

I have run into the same problem here, most maps just bomb for me too.

Bill Richarz <WA4VAF>

wricharz@ix.netcom.com

From LYNN4YCI@MUSIC.CC.UGA.EDU Mon Dec 04 08:17:13 1995

Received: from uga.cc.uga.edu (uga.cc.uga.edu [128.192.1.5]) by sys1.tapr.org
(8.7.2/8.7.2) with SMTP id IAA15470 for <APRSSIG@TAPR.ORG>; Mon, 4 Dec 1995
08:17:10 -0600 (CST)

Received: from UGA.CC.UGA.EDU by uga.cc.uga.edu (IBM VM SMTP V2R3)
with BSMTP id 3022; Mon, 04 Dec 95 05:00:01 EST

Received: from MUSIC.CC.UGA.EDU (NJE origin MUSIC@UGA) by UGA.CC.UGA.EDU (LMail
V1.2a/1.8a) with BSMTP id 9995; Mon, 4 Dec 1995 04:59:54 -0500

Message-Id: <04DEC95.02754875.0063.MUSIC@MUSIC.CC.UGA.EDU>

Date: Mon, 04 Dec 1995 02:33:02 EST

From: "HOLCOMB, GREGORY FRA" <LYNN4YCI@MUSIC.CC.UGA.EDU>

To: <APRSSIG@tapr.org>

Subject: meteor scatter on 6m ?

X-Mailer: MUSIC/SP V4.1.0

I intend to put up a 6m station for the ms event here is my idea

so flame away. hihi

does any body out there have any problem with 50.62 Mhz as recommended
in the docs of aprs?

would it be a problem if the speed was only 1200 baud as this could be
done easy as pie for me and many others who have 6m radios and 1200 tncs
My station can consist of an azden 50w and a 1/4 vertical will this be enough
power/gain for this event or am i spinning my wheels?

I have talked to a nother station who may beable to put up a 6m station at a high site for the event as well in atlanta ga (im in athens 70 to the north east)

if anybody can also tell me the date of the event as i have not heard any thing about it for a week on the sig that will give me an idea if this is do-able or worth wild
thanks Lynn n4yci at Univ of Georgia

From rkramer@cdx.net Mon Dec 04 08:21:34 1995
Received: from cdx.net (www.cdx.net [204.101.129.2]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id IAA16138 for <aprssig@tapir.org>; Mon, 4 Dec 1995 08:21:31 -0600 (CST)
Received: from ron_k.vaxxine.com (204.101.129.55) by cdx.net id <A19951204033631081@cdx.net>; Sun, 03 Dec 1995 22:36:31 -0500
From: rkramer@cdx.net (Ronald Kramer)
To: aprssig@tapir.org
Subject: Re: [APRSSIG:4857] Re: CHANGE 145.79?!
Date: Mon, 04 Dec 1995 03:36:39 GMT
Message-Id: <30c2694a.26704392@mail.cdx.net>
References: <9512031839.AA28584@huey.cadvision.com>
In-Reply-To: <9512031839.AA28584@huey.cadvision.com>
X-Mailer: Forte Agent .99c/16.141

On Sun, 3 Dec 1995 12:52:42 -0600 (CST), you wrote:

>
> I think you guys are all NUTS! Most of my radio equipment is
>crystal ctronrolled! Why should I change my equipment to meet someone
>elses? We have set the frequency at 145.790 both in Canada and the U.S.
>this type of typing is not necessary....
> NOT! It is more
>trouble to move the
>frequency to meet the needs of AMSAT. Hell.... let them move..... cause
>I'm not!

>
>
> My 2 cents worth!
> De Aaron Elekes
> VE6FXR
> E-mail- ve6fxr@amsat.org
>

As far as a freq is concerned 145.790 is a co-ordinating freq.
In Canada it has been used by other packet modes before
APRS came along and to do away with any problems with
co-ordination across this Country.
When CRRL set up the Canadain Frequencies it was decided
to chose a freq for APRS that did not effect any other packet
system in use. It was mutually deciede to use 144.390, as
NO other packet stations where using it and make it an
exclusive "NATIONAL" APRS frequency CANADA wide.
The "Ontario / WNY Packet Advisory Group" led the way
in this decision.

Ontario and Western New York are have been using 144.390
for the last year for APRS.

If you are going to move your 145.790 at all let it be to a
co-ordinated frequency, that is NOT being used by anyother
packet or FM mode. Might I suggest doing as Canada has
done and move down to 144.390 across all of North America.

This is my 2 cents worth, and please fogive the VE6's use
of foul ****'s

Regards, Ron ...

73 de Ron

Internet: rkramer@cdx.net (Ron Kramer)

Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)

From dtowers@immcms1.redstone.army.mil Mon Dec 04 08:31:05 1995

Received: from mic14.redstone.army.mil (mic14.redstone.army.mil [136.205.10.14])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id IAA16825 for <aprssig@tapir.org>; Mon,
4 Dec 1995 08:31:03 -0600 (CST)

Received: from michp758.redstone.army.mil by mic14.redstone.army.mil id ab26343;
4 Dec 95 8:21 CST

Received: from [136.205.13.20] by michp758.redstone.army.mil id aa02395;
4 Dec 95 8:20 CST

Received: by immcmail.redstone.army.mil with Microsoft Mail
id <30C311DB@immcmail.redstone.army.mil>; Mon, 04 Dec 95 09:20:59 CST

From: "Towers, Donald F." <dtowers@immcms1.redstone.army.mil>

To: aprssig <aprssig@tapir.org>

Subject: RE: [APRSSIG:4861] Re: CHANGE 145.79?!

Date: Mon, 04 Dec 95 08:19:00 CST

Message-ID: <30C311DB@immcmail.redstone.army.mil>

Encoding: 40 TEXT

X-Mailer: Microsoft Mail V3.0

Bill i AM with YOU i will not change i have a just brought a data radio for
aprs just for it i will not change freq it cost what \$24.00 to change freq
in it

by the way could you send me your latest map of huntsville or upload it to
aprs for me

thanks for the coor of my location now it will be my becon tex
of cruise missile coordinates.

From: aprssig

To: aprssig

Subject: [APRSSIG:4861] Re: CHANGE 145.79?!

Date: Sunday, December 03, 1995 2:34PM

Bob as you well know the problems i had getting 145.790 coordinated here
in North Alabama it took all of 16 to 18 month's to convince the thick
headed

hams around herethat APRS was usefull and should be just as much a part of ham radio then any other digital mode. You know you heard part of it traveling trough this area during your trip to Florence i'm not about to go trough that again after those thick headed hams finally aggree that YES maybe APRS does work and does have more users then just KE4EER that new ham in Hazel green. I haven't had any complaints about it being to close to another frequency to cause interfearence. Really i always get told by digi owners in Alabama 145.790 doesn't need to be coordinated so maybe those users will vote for the move, but i have coordination papers for North Alabama and don't want to change.

So i Vote STAY on 145.790

Bill KE4EER

From Ke4rvp@aol.com Mon Dec 04 08:33:46 1995
Received: from mail02.mail.aol.com (mail02.mail.aol.com [152.163.172.66]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id IAA17072 for <aprssig@tapr.org>; Mon, 4 Dec 1995 08:33:43 -0600 (CST)
From: Ke4rvp@aol.com
Received: by mail02.mail.aol.com (8.6.12/8.6.12) id HAA21480 for aprssig@tapr.org; Mon, 4 Dec 1995 07:09:18 -0500
Date: Mon, 4 Dec 1995 07:09:18 -0500
Message-ID: <951204070916_43631862@mail02.mail.aol.com>
To: aprssig@tapr.org
Subject: Frequency Change???

A very wise man once said, "If it ain't broke, don't fix it!!! ". I think this holds true to 147.79. Have there been complaints? Has there been interference? If the freq is coordinated, are not the uncoordinated users supposed to move?

My vote: No Move

73 de ke4rvp@aol.com

From mwalker@interlog.com Mon Dec 04 08:35:48 1995
Received: from gold.interlog.com (root@gold.interlog.com [198.53.145.2]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id IAA17715 for <aprssig@tapr.org>; Mon, 4 Dec 1995 08:35:45 -0600 (CST)
Received: from interlog.com (mwalker.interlog.com [199.212.152.131]) by gold.interlog.com (8.6.10/8.6.10) with SMTP id IAA13146 for <aprssig@tapr.org>; Mon, 4 Dec 1995 08:36:13 -0500
Message-Id: <199512041336.IAA13146@gold.interlog.com>
Date: Mon, 04 Dec 95 08:36:08 EST
From: mwalker@interlog.com (Mike Walker)
Reply-To: mwalker@interlog.com (Mike Walker)
To: aprssig@tapr.org

X-Mailer: Mike Walker's PMMail v1.1
Subject: Re: [APRSSIG:4855] Re: CHANGE 145.79?!

To open another can of worms, RAC (Radio Amateurs of Canada), recommended that 144.390 be used as an APRS frequency in Canada. At this point we cover about 1/2 the width of Ontario (300 miles, Buffalo, and North about 80 miles out of Toronto. We are all on 144.390.

The other thing to consider is: Is the AMSAT plan set in stone. If you let them know that 200 digi's are on 145.790, in North America, they might reconsider their plan.

regards...mike

On Sun, 3 Dec 1995 11:53:20 -0600 (CST) you wrote:

>>Bob wrote:

>

>>Well, I just finished reading the latest AMSAT journal, and it seems
>>clear to me that the 145.80 frequency for future manned spacecraft is
>>pretty well established WORLDWIDE.

>>

>>Maybe we on APRS should move down 5 KHz to 145.785.

>>

>>THis would give us a 15 KHz split between the users down on 145.77 and
>>the space guys on 145.80. That should work fine, since 15 KHz splits
>>have been shown to work just fine on the 2 meter band with modern rigs.
>>

>>One further advantage is that most SPACE folks should be encouraged to
>>monitor 145.805 since they will first hear the spacecraft with +3 KHz
>>doppler anyway. Then they can tune downward if they want to track the pass.
>>

>>Many of us have invested heavily in xtals on 145.79. Probably most
>>XTALS will tune down. Some won't. But now that MFJ is delivering their 5
>>watt digital radios XTALD on 145.79, we need to make this decision
>>quickly and get on with it. (MFJ finally agreed to STOCK .79 xtals!
>>I don't want to see them get burned...)

>>

>>I know it is after midnight, and this may be a knee jerk reaction, but I
>>am willing to MOVE. BUT let's all discuss this and see if we all agree?
>>

>>In conclusion:

>>

>>* It will work. It solves the conflict. It supports MANNED HAM radio
>>from space, it will not significantly affect .77 users. It is all-in-all
>>the only possible solution. Some of us may need to re-crystal, but the
>>peace-of-mind will be worth it.
>>

>>* I suggest that APRS stations put out bulletins on their local nets to
>>find out who "can't" change their XTALS. Most nets may be able to
>>shift over night (plus negotiating driving time to the digi sites from
>>their wives).

>>
>>* To prevent overloading both the AMSAT and APRS nets with redundant
>>traffic, lets assume that EVERYONE agrees. Only reply if you DISSAGREE
>>or have another idea.
>>
>>* For the sake of discussion, would targeting something like 1 January
>>give everyone a target date, either for "doing" or for "arguing", hi hi.
>>
>>DE WB4APR in Annapolis MD.
>>
>>-----
>>My \$.02 worth of comments:
>
>I am not flaming anybody here, just voicing my opinion on this subject.
>
>I would rather not change from 145.79 either. I have 3 EPROM type radios that
>are set up for 145.55, 145.79, 145.84R/144.45T etc. and it would cost me
>about \$150 to change ANYTHING on those radios.
>
>I also run a crystal controlled rig for my mobile tracker and \$24.00 would be
>an optimistic estimate for obtaining crystals for that radio. That of course
>does not include the costs of getting it re-tuned if needed.
>
>Another radio is diode programmable so that is not too big of a deal to re-work
>and set up on another frequency, but why?
>
>I co-ordinated 145.79 over 2 years ago to be the province wide APRS frequency.
>I did this to try to achieve some commonality with the rest of North America,
>because I didn't want to see the hassle of having a repeater directory just
>to find out which frequency I (or anybody else) should have to be on when
>travelling around the country. Besides, I have more than enough money invested
>in GPS's, computers, TNC's and the like that the idea of relatively cheap,
>crystal controlled or EPROM radios appealed to me. There is a lot less flak
>from my wife if I can honestly say "That radio only cost \$50 at the Flea Market"
>as opposed to \$500 or \$1000 for a more modern fully tunable radio with all the
>bells and whistles. It is overkill to run a modern radio on one frequency for
>a dedicated purpose. I can't afford to do that, neither can anybody else that
>I know.
>
>I was approached this past summer to move and I said "Why?" The answer, because
>145.79 is reserved for digital modes. I said, what do you think APRS is? Some
>people have said that 145.79 is too close to the Satellite Band, interfering
>with Oscar 13 etc. If 145.79 is too close, isn't 145.80 for Manned Missions
>even closer, particularly when you consider the effects of Doppler Shift on
>their signal. Why did AMSAT pick such a stupid choice for Manned Missions? I
>was happy working MIR on 145.55 and the Shuttles on the previously used
>frequencies. So happy in fact, that I have 3 radios programmed for those
>frequencies!
>
>The bottom line: I don't want to move from 145.79. If I have to move though, I
>will, but it had better be to a permanent frequency
>allocation for this use alone. I have too much invested
>to change everything at some petty beaurocrat's

>slightest whim.
>
>73 de Dave VE6MJR
>Calgary, Alberta
>E-Mail birksd@cadvision.com
>73 de Dave
>
>
>

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

From jhussey@freenet.columbus.oh.us Mon Dec 04 08:47:26 1995
Received: from ronco.freenet.columbus.oh.us (ronco.freenet.columbus.oh.us [164.107.107.13]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id IAA18671 for <aprssig@tapir.org>; Mon, 4 Dec 1995 08:47:20 -0600 (CST)
Received: from acme.freenet.columbus.oh.us by ronco.freenet.columbus.oh.us (8.6.10/4.940426)
id GAA18181; Mon, 4 Dec 1995 06:08:03 -0500
Received: by acme.freenet.columbus.oh.us (8.6.10) id GAA11160; Mon, 4 Dec 1995 06:08:03 -0500
Date: Mon, 4 Dec 1995 06:04:03 -0500 (EST)
From: Joseph Hussey <jhussey@freenet.columbus.oh.us>
Subject: re CHANGE 145.79?
To: aprssig@tapir.org
Message-ID: <Pine.3.07.9512040603.A10269-9100000@acme>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

DO NOT MAKE THE CHANGE - change will be very detrimental to the continued growth/acceptance of APRS - one bone of contention with many other spectrum users (i.e., voice & packet) is our need for an APRS frequency. It is doubtful whether the change will have a significant impact on a perceived problem.

73s de W8RIK

From dtowers@immcms1.redstone.army.mil Mon Dec 04 08:53:18 1995
Received: from mic14.redstone.army.mil (mic14.redstone.army.mil [136.205.10.14]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id IAA19232 for <aprssig@tapir.org>; Mon, 4 Dec 1995 08:53:15 -0600 (CST)
Received: from michp758.redstone.army.mil by mic14.redstone.army.mil id ae27392; 4 Dec 95 8:36 CST
Received: from [136.205.13.20] by michp758.redstone.army.mil id aa03575; 4 Dec 95 8:35 CST
Received: by immcmail.redstone.army.mil with Microsoft Mail id <30C31562@immcmail.redstone.army.mil>; Mon, 04 Dec 95 09:36:02 CST

From: "Towers, Donald F." <dtowers@immcms1.redstone.army.mil>
To: aprssig <aprssig@tapr.org>
Subject: RE: [APRSSIG:4866] Re: CHANGE 145.79?!
Date: Mon, 04 Dec 95 08:33:00 CST
Message-ID: <30C31562@immcmail.redstone.army.mil>
Encoding: 31 TEXT
X-Mailer: Microsoft Mail V3.0

I am in Huntsville ALA
the freq 145.010 is used
the freq 145.090 is used
i just bought a mfj data radio just for APRS spent the more money
to get on freq for APRS , I thank it is a very big mistake to give up the
freq 145.790

THANKS
DON TOWERS
KD4YNG

From: aprssig
To: aprssig
Subject: [APRSSIG:4866] Re: CHANGE 145.79?!
Date: Sunday, December 03, 1995 4:25PM

Gary and I are coordinators. We can pass your messages to the
coordinator's remailer.....

What do you want?

Ther is NO country-wide band-plan. If you need something NOW
is the time to ask for it - before there is mandatory (whatever).

Let us know - we really want to help.

73 de Dave Barrow, N9UNR
FC-WI WAR-MACC
n9unr@execpc.com (preferred) or dbarrow@omnifest.uwm.edu

From dwetzel@acs.uswest.com Mon Dec 04 09:11:03 1995
Received: from uswat.advtech.uswest.com (uswat.advtech.uswest.com [130.13.16.1])
by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id JAA19910 for <aprssig@tapr.org>; Mon,
4 Dec 1995 09:10:59 -0600 (CST)
From: dwetzel@acs.uswest.com
Received: from easthub ([151.117.26.86]) by uswat.advtech.uswest.com (8.7.1/8.7.1)
with SMTP id IAA07026 for <aprssig@tapr.org>; Mon, 4 Dec 1995 08:10:54 -0700 (MST)
Received: by easthub.mnet.uswest.com (M-Net Hub.950111)
Received: from acmspgw1.mnet.uswest.com by acs.uswest.com (5.x/SMI-SVR4)
id AA10148; Mon, 4 Dec 1995 09:10:46 -0600
Received: from ccMail by acmspgw1.mnet.uswest.com
(IMA Internet Exchange 1.04b beta) id 0c306240; Mon, 4 Dec 95 08:31:00 -0600
Mime-Version: 1.0
Date: Mon, 4 Dec 1995 07:55:34 -0600

Message-Id: <0c306240@acmspgw1.mnet.uswest.com>

Subject: Re: CHANGE 145.79?!

To: aprssig@tapr.org

Content-Type: text/plain; charset=US-ASCII

Content-Transfer-Encoding: 7bit

Content-Description: cc:Mail note part

If the SAREX coordinators were informed of how much activity there is now on 5.79 APRS, perhaps they would consider using .80 as a secondary or emergency only downlink. Last SAREX, all I heard was activity on .84, anyway. As for MIR, they seem pretty happy on .55 at the moment, especially with the new 440 gear on board.

Has someone on the sig contacted the SAREX coordinators with good data about the rapid spread of APRS and the probability of interference with the 5.80 downlink? Do we need to "officially" sanction a national APRS spokesperson?

One last comment - we should in good engineering practice make sure that all of our digis have the minimum possible deviation consistent with reliable operation. That will certainly go a long way toward minimizing problems should we remain on .79, and make us good neighbors in the spirit of ham radio anyway. Borrow a dev meter and make sure!

I vote no on the move, but will do what's best for APRS, xtals or no.

Doug

KC7CO

dwetzel@acs.uswest.com

From S.Miller@rus.uni-stuttgart.de Mon Dec 04 09:51:09 1995

Received: from artemis.rus.uni-stuttgart.de (artemis.rus.uni-stuttgart.de [129.69.18.28]) by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id JAA21415 for <aprssig@tapr.org>; Mon, 4 Dec 1995 09:48:18 -0600 (CST)

Received: from intelsun.rus.uni-stuttgart.de (intelsun.rus.uni-stuttgart.de [129.69.13.50]) by artemis.rus.uni-stuttgart.de with SMTP id JAA29080

(8.6.12/IDA-1.6 for <aprssig@tapr.org>; Mon, 4 Dec 1995 09:05:55 +0100

Received: by intelsun.rus.uni-stuttgart.de (4.1/BelWue-1.1S(subsidiary)) id AA04440; Mon, 4 Dec 95 09:10:43 +0100

From: S.Miller@rus.uni-stuttgart.de (Shannon Miller)

Message-Id: <9512040810.AA04440@intelsun.rus.uni-stuttgart.de>

Subject: Re: [APRSSIG:4803] Re: COM-BUFFER-OVERRUN errors

To: aprssig@tapr.org

Date: Mon, 4 Dec 1995 09:10:43 +0100 (MET)

In-Reply-To: <Pine.SUN.3.91.951201101102.20676G-100000@greatlakes> from "Bob Bruninga" at Dec 1, 95 09:30:46 am

X-Mailer: ELM [version 2.4 PL21]

Content-Type: text

Bob Bruninga writes:

>

> On Thu, 30 Nov 1995 moyers@ibm.net wrote:
>
> > I seem to be getting Comm-Buffer-Overrun errors anytime I am typing
> > comments to another station...
>
> APR REPLY: Type FASTER! APRS ignores the COM ports while you are typing
> in response to a PROMPT. Your buffers are overflwoing..

Any chance of making the COM buffers configurable -- so that those with more memory than they know what to do with can make use of it? Or is that something that's hard-coded into the language COM services?

--Shannon, DL6SEU

From ddoulou@tesla.netline.net Mon Dec 04 10:50:08 1995
Received: from tesla.netline.net (root@tesla.netline.net [204.117.219.2]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id KAA23996 for <aprssig@tapr.org>; Mon, 4 Dec 1995 10:50:05 -0600 (CST)
Received: from ddoulou (tpa00.netline.net [205.160.7.80]) by tesla.netline.net (8.6.12/8.6.9) with SMTP id LAA10781 for <aprssig@tapr.org>; Mon, 4 Dec 1995 11:50:51 -0500
Message-Id: <199512041650.LAA10781@tesla.netline.net>
Comments: Authenticated sender is <ddoulou@mail.netline.net>
From: "Demos Doulou" <ddoulou@tesla.netline.net>
To: aprssig@tapr.org
Date: Mon, 4 Dec 1995 11:51:24 +0005
Subject: Re: [APRSSIG:4867] 145.80 Manned Space frequency.
Priority: normal
X-mailer: Pegasus Mail for Windows (v2.10)

> Date: Mon, 4 Dec 1995 08:41:44 -0600 (CST)
> Reply-to: aprssig@tapr.org
> From: Bob Bruninga <bruninga@nadm.navy.mil>
> To: aprssig@tapr.org
> Subject: [APRSSIG:4867] 145.80 Manned Space frequency.

d Of course the 15KHz vs 20KHz controversy still rages, but in our area,
> there are 53 two meter repeaters operating on 15 KHz channels quite
> well. It all depends on your rig. Rather than arguing the emotions,
> please test your radio. Just tune 15 KHz above or below your local
> REPEATERS and see if you hear splatter. If you hear nothing, or another
> repeater, then you have just proved that 15KHz splits work with decent
> radios. 20 year old radios will NOT pass this test. Most modern ones WILL.
>
> Most commercial services are going to 12.5 KHz channels. IT DOES WORK.
>
d

Our experience here in Pinellas County is that 15 khz spacing will only work if there is at least 20 miles separation between receiver and transmitter. Our problem with our repeater spaced 15 khz from the Tampa machine is not the repeaters themselves, but with users who our working the Tampa machine within 20 miles of the Pinellas

machine. The result is splater making the Pinellas machine unusable .
15 Khz will not work with close spacing, and you will have close
spacing on packet channels

73 Demos KR4US

See Ya
Demos

From martinbw@TEN-NASH.TEN.K12.TN.US Mon Dec 04 11:02:06 1995
Received: from ten-nash.ten.k12.tn.us (ten-nash.ten.k12.tn.us [198.146.3.220]) by
sys1.tapir.org (8.7.2/8.7.2) with ESMTP id LAA24238 for <aprssig@tapir.org>; Mon, 4
Dec 1995 11:01:46 -0600 (CST)
Received: from oscar.tbr.state.tn.us (198.146.3.67) by TEN-NASH.TEN.K12.TN.US
(PMDF V4.3-10 #11463) id <01HYDWDWMPGGI3TBUM@TEN-NASH.TEN.K12.TN.US>; Sun,
03 Dec 1995 21:48:48 -0600 (CST)
Date: Sun, 03 Dec 1995 21:48:04 -0600
From: "Bruce W. Martin" <martinbw@TEN-NASH.TEN.K12.TN.US>
Subject: Re: [APRSSIG:4842] CHANGE 145.79?!
To: aprssig@tapir.org
Message-id: <9512032148.AA04864@oscar.tbr.state.tn.us>
MIME-version: 1.0
X-Mailer: InterCon TCP/Connect II 2.3
Content-type: Multipart/Mixed;boundary=part_ACE7CB9400E8638A000000004
Content-transfer-encoding: 7BIT

--part_ACE7CB9400E8638A000000004
Content-Type: Text/Plain; charset=US-ASCII
Content-Disposition: Inline

> Well, I just finished reading the latest AMSAT journal, and it seems
> clear to me that the 145.80 frequency for future manned spacecraft
> is pretty well established WORLDWIDE.

Can you expand on how you came to this conclusion? How long manned missions
have been using this frequency? Who (Worldwide) decided to use this frequency?
How often are they using this frequency?

> Many of us have invested heavily in xtals on 145.79. Probably most
> XTALS will tune down. Some wont. But now that MFJ is delivering
> their 5 watt digital radios XTALED on 145.79, we need to make
> this decision quickly and get on with it. (MFJ finally agreed to
> STOCK .79 xtals!
> I dont want to see them get burned...)

I currently have 1 digi up and running one that should be up within two weeks
and another that I hope to have up before the end of the year. All of the
radios and TNCs have been aquired and only antennas and feedline are are the
last issues to be completed. Retuning these at this point would not be a
trivial matter. This does not take into account the standalone and other
mobile trackers. While I know that the whole country is not on 145.79 MHz for

APRS, everyone around here is and more and more people are joining in. It would seem to me that the space users should rethink their position. I will agree that I do not have all the information needed to be firm on my position but with what I have now I think that moving APRS to 145.785 MHz would be a mistake and would affect more people than the space user community having to move over a little.

That's my opinion, oughta be yours. ;{) (hi hi)

73 de KQ4TV

--part_ACE7CB9400E8638A000000004
Content-Transfer-Encoding: Quoted-Printable
Content-Type: Text/Plain; charset=ISO-8859-1
Content-Disposition: Inline

--

* Bruce W. Martin Internet: martinbw@ten-nash.ten.k12.tn.us *
* 4558 Brooke Valley Dr. HAM Call: KQ4TV *
* Hermitage TN 37076-2650 ICBM/ALCM *
* Voice: (615) 872-9942 Address:36=B010'30"N/86=B035'30"W *=
* FAX/MODEM: (615) 885-4182 APRS:3610.50N/08635.50W *
* URL: http://www.tbr.state.tn.us/~martinbw/home.html *
* I have a 486DX33 to play games and run some HAM programs, *
* when I want to do serious work I use a Macintosh. *

--part_ACE7CB9400E8638A000000004--

From martinbw@TEN-NASH.TEN.K12.TN.US Mon Dec 04 11:04:27 1995
Received: from ten-nash.ten.k12.tn.us (ten-nash.ten.k12.tn.us [198.146.3.220]) by
sys1.tapr.org (8.7.2/8.7.2) with ESMTP id LAA24782 for <aprssig@tapr.org>; Mon, 4
Dec 1995 11:04:24 -0600 (CST)
Received: from oscar.tbr.state.tn.us (198.146.3.67) by TEN-NASH.TEN.K12.TN.US
(PMDF V4.3-10 #11463) id <01HYDUDC2CY8I3T1N0@TEN-NASH.TEN.K12.TN.US>; Sun,
03 Dec 1995 20:51:04 -0600 (CST)
Date: Sun, 03 Dec 1995 20:50:12 -0600
From: "Bruce W. Martin" <martinbw@TEN-NASH.TEN.K12.TN.US>
Subject: Tiny-2 help needed
To: aprssig@tapr.org
Message-id: <9512032050.AA12043@oscar.tbr.state.tn.us>
MIME-version: 1.0
X-Mailer: InterCon TCP/Connect II 2.3
Content-type: Multipart/Mixed;boundary=part_ACE7BE0400E533D3000000002
Content-transfer-encoding: 7BIT

--part_ACE7BE0400E533D3000000002
Content-Type: Text/Plain; charset=US-ASCII
Content-Disposition: Inline

I am trying to get more folks in the area into APRS. A few of them have the Tiny-2 TNC but have not been able to get things to work. Are there any special parameters or settings that are needed to get APRS to work with a Tiny-2.

Your assistance is appreciated,

73 de KQ4TV

--part_ACE7BE0400E533D3000000002
Content-Transfer-Encoding: Quoted-Printable
Content-Type: Text/Plain; charset=ISO-8859-1
Content-Disposition: Inline

--

```
*****
* Bruce W. Martin           Internet: martinbw@ten-nash.ten.k12.tn.us *
* 4558 Brooke Valley Dr.    HAM Call: KQ4TV                          *
* Hermitage TN 37076-2650    ICBM/ALCM                              *
* Voice: (615) 872-9942      Address:36=B010'30"N/86=B035'30"W      *=
* FAX/MODEM: (615) 885-4182  APRS:3610.50N/08635.50W              *
* URL: http://www.tbr.state.tn.us/~martinbw/home.html              *
* I have a 486DX33 to play games and run some HAM programs,        *
* when I want to do serious work I use a Macintosh.                *
*****
```

--part_ACE7BE0400E533D3000000002--

From gerry@cs.tamu.edu Mon Dec 04 12:01:30 1995
Received: from cs.tamu.edu (clavin.cs.tamu.edu [128.194.130.106]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id MAA26419 for <aprssig@tapir.org>; Mon, 4 Dec 1995 12:01:27 -0600 (CST)
Received: from solar.cs.tamu.edu (2961@solar.cs.tamu.edu [128.194.132.1]) by cs.tamu.edu (8.6.10/8.6.4) with ESMTP id MAA01532 for <aprssig@tapir.org>; Mon, 4 Dec 1995 12:00:43 -0600
From: Gerald J Creager <gerry@cs.tamu.edu>
Received: (gerry@localhost) by solar.cs.tamu.edu (8.6.10/8.6.4) id MAA09481 for aprssig@tapir.org; Mon, 4 Dec 1995 12:00:35 -0600
Message-Id: <199512041800.MAA09481@solar.cs.tamu.edu>
Subject: Re: [APRSSIG:4876] Re: CHANGE 145.79?!\nTo: aprssig@tapir.org\nDate: Mon, 4 Dec 1995 12:00:33 -0600 (CST)\nIn-Reply-To: <0c306240@acmspgw1.mnet.uswest.com> from "dwetzel@acs.uswest.com" at Dec 4, 95 09:14:13 am\nX-Mailer: ELM [version 2.4 PL24]\nContent-Type: text

dwetzel@acs.uswest.com sez:

```
>
> If the SAREX coordinators were informed of how much activity there is
> now on 5.79 APRS, perhaps they would consider using .80 as a secondary
> or emergency only downlink. Last SAREX, all I heard was activity on
> .84, anyway. As for MIR, they seem pretty happy on .55 at the moment,
```

> especially with the new 440 gear on board.
>
> Has someone on the sig contacted the SAREX coordinators with good data
> about the rapid spread of APRS and the probability of interference
> with the 5.80 downlink? Do we need to "officially" sanction a
> national APRS spokesperson?

When we started trying to migrate out of the general use band segment and toward the Space segment, APRS was a very small, and non-accelerating, portion of packet. I have seen significant interest growth and utility evolve over just the last 6 months. Over the last year, it's been pretty phenomenal.

SAREX has had to contend with DX Clusters, complaints from BBS's and with the European standards that we violated. AMSAT negotiated a plan internationally that will work. It took time, effort and money to get it accomplished. It's not likely to change because of 200 digi's, or so.

All in all, Mir's crews are busier over the long haul than the shuttle crews, with some notable exceptions. Also, the Shuttle crews have a better grasp of how to manipulate their radios than the guys on Mir. N6JLH spent months working out a set of frequencies for Mir to use besides 145.55, and training them long-distance to make the frequency changes. Get a grip: These guys are sharp, but ham radio's not at the forefront of their lives.

> One last comment - we should in good engineering practice make sure
> that all of our digis have the minimum possible deviation consistent
> with reliable operation. That will certainly go a long way toward
> minimizing problems should we remain on .79, and make us good
> neighbors in the spirit of ham radio anyway. Borrow a dev meter and
> make sure!

Better yet, borrow a service monitor and make sure it's ALL set up right. This point is well taken. I've heard folks on here claim they were filling a 30 khz segment of band with a 1200 baud packet signal. This is indicative of a problem. For the record, SAREX is configured for 2.5 khz deviation and works fine. Audio inspection of a number of the TNC setup's around here suggests they are overmodulating, which is actually a testimony to the demodulators, and says little positive about the way the rigs were configured.

73, gerry

--

Gerry Creager N5JXS	* SAREX Co-Investigator
gerry@cs.tamu.edu	* A little radio that lets kids talk
	* to astronauts, and smile

From n4uls@ix.netcom.com Mon Dec 04 12:01:33 1995
Received: from ix3.ix.netcom.com (ix3.ix.netcom.com [199.182.120.3]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id MAA26428 for <aprssig@tapr.org>; Mon, 4
Dec 1995 12:01:30 -0600 (CST)
Received: from by ix3.ix.netcom.com (8.6.12/SMI-4.1/Netcom)
id KAA25187; Mon, 4 Dec 1995 10:00:18 -0800
Date: Mon, 4 Dec 1995 10:00:18 -0800

Message-Id: <199512041800.KAA25187@ix3.ix.netcom.com>
From: n4uls@ix.netcom.com (Jack Anderson)
Subject: 15 kHz spacing and APRS
To: aprssig@tapr.org

Regarding an earlier comment that 15 kHz spacing works fine for repeaters, etc., there is a reason that it works. The coordinating body uses criteria for co-channel and adjacent channel separation to help prevent interference. Systems destined to operate on adjacent channels must be separated by a certain distance to prevent adjacent channel interference. Yes, packet could work as well, but stringent adjacent channel separation guidelines would need to be developed and followed. We would not have anywhere near the degree of flexibility we enjoy now when placing digipeaters on the air. It's possible that home stations may need to be coordinated as well.

Another problem - repeaters use frequency pairs separated by 600 kHz. This makes it impossible for a *repeater* to interfere with another *repeater*. In repeater frequency coordination we are more concerned about adjacent channel interference from a nearby repeater to mobiles and portables operating on a given channel. But, with packet, just about everything is simplex. Simplex packet digipeaters and nodes located at good radio sites stand a much better chance of creating adjacent channel interference to each other, since now we're talking about "base to base" interference instead of "base to mobile". The path is now a line-of-sight path with much less attenuation.

Jack

From elekesa@cadvision.com Mon Dec 04 12:19:32 1995
Received: from huey.cadvision.com (huey.cadvision.com [204.50.1.2]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id MAA27598 for <aprssig@tapr.org>; Mon, 4 Dec 1995 12:19:23 -0600 (CST)
Received: from [204.50.229.144] by huey.cadvision.com (AIX 4.1/UCB 5.64/4.04.tri.dcx)
id AA65044; Mon, 4 Dec 1995 11:15:54 -0700
Date: Mon, 4 Dec 1995 11:15:54 -0700
Message-Id: <9512041815.AA65044@huey.cadvision.com>
X-Sender: elekesa@huey.cadvision.com
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: elekesa@cadvision.com (aaron elekes)
Subject: Re: [APRSSIG:4870] Re: CHANGE 145.79?!

..
>As far as a freq is concerned 145.790 is a co-ordinated freq.
>In Canada it has been used by other packet modes before
>APRS came along and to do away with any problems with
>co-ordination across this Country.
>When CRRL set up the Canadian Frequencies it was decided
>to chose a freq for APRS that did not effect any other packet

>system in use. It was mutually decided to use 144.390, as
>NO other packet stations were using it and make it an
>exclusive "NATIONAL" APRS frequency CANADA wide.
>The "Ontario / WNY Packet Advisory Group" led the way
>in this decision.
>Ontario and Western New York have been using 144.390
>for the last year for APRS.
>If you are going to move your 145.790 at all let it be to a
>co-ordinated frequency, that is NOT being used by any other
>packet or FM mode. Might I suggest doing as Canada has
>done and move down to 144.390 across all of North America.
>
>This is my 2 cents worth, and please forgive the VE6's use
>of foul ****'s
>
>Regards, Ron ... 73 de Ron
> Internet: rkramer@cdx.net (Ron Kramer)
> Packet: ve3mx@ve3snr.#niag.on.can (sysop VE3SNR BBS)
>

It wasn't foul! It was sensored! Anyways, whoever set the frequency
for Canada is an idiot! We set 145.790 over 2 years ago for Alberta. Then
RAC comes along and moves it on us down to 144.390. WHY! I would like to
stay where it is compatible with other countries. Also, 145.790 freq is
reserved for digital mode in the RAC spectrum. What do you think APRS is?
So I am staying!

>
De Aaron Elekes
VE6FXR
E-mail- ve6fxr@amsat.org

From schwab@cent.com Mon Dec 04 12:39:28 1995
Received: from ns.cent.com (root@[206.25.18.2]) by sys1.tapr.org (8.7.2/8.7.2)
with SMTP id MAA28384 for <aprssig@tapr.org>; Mon, 4 Dec 1995 12:39:25 -0600 (CST)
Received: from ppp20.cent.com (ppp20.cent.com [206.25.18.20]) by ns.cent.com
(8.6.12/8.6.12) with SMTP id MAA23483 for <aprssig@tapr.org>; Mon, 4 Dec 1995
12:39:22 -0600
Date: Mon, 4 Dec 1995 12:39:22 -0600
Message-Id: <199512041839.MAA23483@ns.cent.com>
X-Sender: schwab@cent.com
X-Mailer: Windows Eudora Version 1.4.3
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: schwab@cent.com (Chris Schwab)
Subject: Re: [APRSSIG:4847] CHANGE 145.79?!

With all the hard work it has taken, I believe that it would be a bad
idea to change the frequency ... Personally, I have a radio rock bound,
and I realize that it is only \$25.00 to change the crystals... But I am
just a user. What about all the digis out there??

Just my two cents worth...

```
-----  
|      Chris Schwab KD4PHS      |  
|      KD4PHS @ AMSAT.ORG      |  
|      KD4PHS @ W4DPH.#TPA.FL.USA.NOAM |  
|      schwab@cent.com         |  
|      http://cent.com/schwab   |  
|      Fidonet 1:3603/73 -or- 1:3603/20030 |  
-----
```

From 102256.1216@compuserve.com Mon Dec 04 12:43:03 1995
Received: from arl-img-6.compuserve.com (arl-img-6.compuserve.com [198.4.7.6]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id MAA28459 for <aprssig@tapr.org>; Mon, 4
Dec 1995 12:42:55 -0600 (CST)
Received: by arl-img-6.compuserve.com (8.6.10/5.950515)
id NAA17221; Mon, 4 Dec 1995 13:42:22 -0500
Date: 04 Dec 95 13:38:46 EST
From: Doug Woodruff <102256.1216@compuserve.com>
To: TAPR E-mail Forum <aprssig@tapr.org>
Subject: Spartan Packet Radio Experiment
Message-ID: <951204183846_102256.1216_BHB129-1@CompuServe.COM>

I hadn't seen this on the SIG and thought everyone would enjoy it.

Doug Woodruff, KM4HY.....

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=====
```

=From: tedwards@Glue.umd.edu (Thomas Grant Edwards)
=Newsgroups: rec.radio.amateur.space,rec.radio.amateur.misc,sci.space.shuttle
=Subject: SPARTAN PACKET RADIO EXPERIMENT (SPRE) in January!!
=Date: 1 Dec 1995 14:36:02 -0500
=Organization: Project Glue, University of Maryland, College Park
=Lines: 181
=Message-ID: <49nlf2\$375@volt.isr.umd.edu>
=NNTP-Posting-Host: volt.isr.umd.edu
=Xref: hobbess.cc.uga.edu rec.radio.amateur.space:5831
rec.radio.amateur.misc:50969 =sci.space.shuttle:24578

=
=

=SPARTAN PACKET RADIO EXPERIMENT (SPRE)

=-----

=
=

=General Information (long)
=
=By: Ken McCaughey (N3FZX)
=File: spre02pr.txt
=Date: 29-Nov-95

=
=
=

=The Spartan Packet Radio Experiment (SPRE) is an Amateur Radio (HAM radio) communications experiment. The primary mission is to test satellite tracking using amateur packet radio and a Global Positioning System (GPS). SPRE was developed and built by the University of Maryland Amateur Radio Association (UMARA) with assistance from NASA, volunteer engineers, and volunteer software professionals.

=SPRE is one of four experiments on NASA's Spartan/OAST-Flyer spacecraft. The Spartan spacecraft is scheduled for launch on January 11, 1996 aboard the space shuttle Endeavour as part of mission STS-72. The spacecraft is a cube shaped, battery powered, retrievable satellite. Spartan will be deployed by the shuttle's robot arm and likewise retrieved after approximately 48 hours of free flight.

=Mission Objectives:

- =* Promote amateur radio and amateur satellite communications.
- =* Test GPS and packet radio based tracking system using a Low Earth Orbit (LEO) satellite.
- =* Provide an educational tool to inspire elementary and high school students to pursue science and engineering.
- =* Provide a unique hands-on educational opportunity for college students.

=SPRE is designed to relay ground station positions and transmit telemetry containing the GPS location of the spacecraft and housekeeping data. The GPS data is generated by another Spartan experiment.

=Special software called APRtrak (tm) will be used at SPRE ground stations to plot the positions of stations and objects world-wide using SPRE transmissions. APRtrak uses full color maps and graphics with the capability to display detail maps of selected geographic regions. Amateur radio ground stations can transmit their locations to SPRE, and if heard, SPRE will relay GPS information back to Earth. All ground stations within range of SPRE will see the relayed stations plotted at the on the map at the correct geographic location. The APRtrak software will also decode and display SPRE housekeeping telemetry including temperatures, voltages, and system status. This software is freely available on the Internet for installation on IBM compatible computers.

=This technology has many applications in the amateur radio as well as the commercial worlds. Low cost Low Earth Orbit (LEO) satellites could be used to track storms, weather balloons, boats at sea, trucks, etc. Satellites could collect the location data from ground targets and download it to ground control stations. If the SPRE mission is successful, this capability may be incorporated into future amateur spacecraft, thus supporting the amateur's effort for technological improvement.

=The operational aspects of SPRE will include amateur radio operators throughout the world. Elementary and High Schools are encouraged to enlist the aid of local amateur radio operators to set up ground stations

=and participate in the SPRE experiment. SPRE can be used as an
=educational tool in many classes including math, science, and geography.

=

=SPRE can still be used as an educational tool even if a school is not in
=session during a fly-over. A simple amateur packet radio station can be
=configured to listen to the SPRE telemetry and record the data for later
=study.

=

=Amateurs and schools who participate are encouraged to send the data they
=collect to the SPRE Project to help to piece together a composite picture
=of the mission. The final results will be made available to participating
=schools and the amateur radio community.

=

=SPRE will use a ground control network, SPREnet, consisting of specially
=equipped amateur radio stations to distribute data via the Internet.
=These control stations will monitor the health and activity of SPRE.

=

=In addition to the amateur radio experiment, the SPRE system will forward
=to Earth a sampling of real-time telemetry for two of OAST Flyer's
=experiments: REFLEX and GADACS. Spartan is equipped with on-board
=recorders to capture data from each of the experiments. Traditionally, an
=experimenter must wait several weeks to receive the mission data. SPRE
=provides a low cost, innovative solution giving experimenters the
=opportunity view a small sample of data during the mission while advancing
=amateur radio satellite technology.

=

=The sample REFLEX data from the mass spectrometer will be used by the
=experimenters to provide feedback on how well their experiment is
=performing. SPRE will be providing GPS location and time information from
=the GADACS experiment. This information will provide some insight on the
=health of the GADACS GPS receivers as well as indicate the current
=location of the Spartan satellite. Using the APRtrak software described
=above, amateur radio stations and schools will be able to observe the
=track of the satellite as it passes overhead.

=

=Data is transmitted on a downlink frequency of 145.55 MHz. The is the
=same frequency used by the MIR space station and the Shuttle Amateur Radio
=EXperiment (SAREX). The data format is completely printable ASCII
=characters and therefore is fully compatible with all amateur packet radio
=equipment in common use today.

=

=All of the hardware and software has been designed and constructed by
=students and volunteers. This low cost project has provided a great
=hands-on opportunity to gain experience in space communications. So far,
=several students have earned college credit for their work on SPRE. It
=has also helped some graduating students secure employment in the
=aerospace industry.

=

=

=

=Information Summary

=-----

=

=Mission: STS-72, Space Shuttle Endeavour (OV-105)
=
=Launch: January 11, 1996 at 09:18 UTC (60 minute launch window)
=Orbit: 28.45 Degrees
=
=SPRE Deployment: 3 days 2 hours mission elapsed time
=SPRE mission: Approximately 46 hours
=
=Operating Mode: FM, AFSK 1200 baud packet radio
=Frequencies: 145.550 MHz Simplex
=
=Landing: January 20, 1996 at 04:54 UTC at KSC
=
=WWW Home Page: <http://w3eax.umd.edu>
=Anon. FTP site: [w3eax.umd.edu /pub/spre](http://w3eax.umd.edu/pub/spre) directory
=
=
=
=Ground Stations:
=
=★ Any amateur radio station or school with packet radio capability
=★ ARPtrak Software (available on the Internet)
= - Runs on an IBM compatible PC
= - Displays SPRE telemetry
= - Unattended data collection capability
= - Can replay satellite passes
=★ Simple packet radio station setup
= - Licensed Amateur Radio Operator
= - Terminal Node Controller (TNC)
= - VHF Radio (amplifier recommended if transmitting to SPRE)
= - VHF Antenna (beam recommended if transmitting to SPRE)
= - PC Compatible Computer
= - APRtrak Software Package4
= - Satellite Tracking Software (Recommended)
=
=
=
=To Participate:
=
=Schools wishing to participate should contact the SPRE Project for more
=information and the APRtrak software. Send electronic mail (e-mail) to
=Ken McCaughey at kenneth@w3eax.umd.edu. Or send a self addressed stamped
=envelop and a 3.5 inch high density floppy disk to:
=
=
= Attn: SPRE Project
= Century Computing Inc.
= 8101 Sandy Spring Road
= Laurel, MD 20707
=
=For information on local amateur radio clubs, operators, and volunteer
=instructors please contact Peter Budnik from the Amateur Radio Relay
=League (ARRL). Send mail or e-mail to:
=

= Peter Budnik
= ARRL
= 225 Main Street
= Newington, CT 06111
= e-mail: pbudnik@arrl.org
=
=
=
=
=
=
=>-----207663120728896--
=====

From mwalker@gold.interlog.com Mon Dec 04 13:25:26 1995
Received: from gold.interlog.com (mwalker@gold.interlog.com [198.53.145.2]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id NAA00112 for <aprssig@tapr.org>; Mon, 4
Dec 1995 13:25:21 -0600 (CST)
Received: (from mwalker@localhost) by gold.interlog.com (8.6.10/8.6.10) id
OAA22625; Mon, 4 Dec 1995 14:25:19 -0500
Date: Mon, 4 Dec 1995 14:25:18 -0500 (EST)
From: Michael Walker <mwalker@gold.interlog.com>
Subject: Re: [APRSSIG:4883] Re: CHANGE 145.79?!
To: aprssig@tapr.org
cc: aprssig@tapr.org
In-Reply-To: <9512041815.AA65044@huey.cadvision.com>
Message-ID: <Pine.3.89.9512041451.B20829-01000000@gold.interlog.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Aaron

Did anyone supply input from Alberta when we had 6 months of data
collection going on. We wanted to know what was in use Canada wide, and
I don't remember hearing about Alberta using 145.790. As for Eastern
Canada, it growing in leaps and bounds on 144.390.

Finger pointing aside, how many digi's are on 145.790 in Alberta?

regards...mike

Michael Walker
mwalker@interlog.com
VA3MW

On Mon, 4 Dec 1995, aaron elekes wrote:

> .
> >As far as a freq is concerned 145.790 is a co-ordinated freq.
> >In Canada it has been used by other packet modes before
> >APRS came along and to do away with any problems with

> >co-ordination across this Country.
> >When CRRL set up the Canadian Frequencies it was decided
> >to chose a freq for APRS that did not effect any other packet
> >system in use. It was mutually decided to use 144.390, as
> >NO other packet stations where using it and make it an
> >exclusive "NATIONAL" APRS frequency CANADA wide.
> >The "Ontario / WNY Packet Advisory Group" led the way
> >in this decision.
> >Ontario and Western New York are have been using 144.390
> >for the last year for APRS.
> >If you are going to move your 145.790 at all let it be to a
> >co-ordinated frequency, that is NOT being used by anyother
> >packet or FM mode. Might I suggest doing as Canada has
> >done and move down to 144.390 across all of North America.
> >
> >This is my 2 cents worth, and please forgive the VE6's use
> >of foul ****'s
> >
> >Regards, Ron ... 73 de Ron
> > Internet: rkramer@cdx.net (Ron Kramer)
> > Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)
> >
> >
> > It wasnt foul! It was sencored! Anyways, whoever set the frequency
> > for Canada is an idiot! We set 145.790 over 2 years ago for Alberta. Then
> > RAC comes along and moves it on us down to 144.390. WHY! I would like to
> > stay where it is compatable with other countries. Also, 145.790 freq is
> > reserved for digital mode in the RAC spectrum. What do you think APRS is?
> > So I am staying!
> >
> > De Aaron Elekes
> > VE6FXR
> > E-mail- ve6fxr@amsat.org
> >
> >

From jan@archimedes.vislab.navy.mil Mon Dec 04 13:48:35 1995
Received: from archimedes.vislab.navy.mil (archimedes.chinalake.navy.mil
[129.131.31.8]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id NAA01320 for
<aprssig@tapr.org>; Mon, 4 Dec 1995 13:48:31 -0600 (CST)
Received: from [129.131.31.10] (gawain.vislab.navy.mil [129.131.31.10]) by
archimedes.vislab.navy.mil (current-1701B/current-CL-CL) with SMTP id LAA08550 for
<aprssig@tapr.org>; Mon, 4 Dec 1995 11:49:42 -0800
Date: Mon, 4 Dec 1995 11:49:42 -0800
Posted-Date: Mon, 4 Dec 1995 11:49:42 -0800
Message-Id: <v01520d06ace88efc2c07@[129.131.31.10]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: jan@archimedes.vislab.navy.mil (Jan A. Barglowski)
Subject: Re: [APRSSIG:4842] CHANGE 145.79?!

A point I haven't seen mentioned yet:

Which is more useful to you? Having amateurs talk to the astronauts or having an APRS network that could be used in emergencies, public events, etc. Seems to me that the amateurs that contact manned space operations pretty much do it for the thrill of the contact. I vote in favor of a useful APRS network.

73, jan
kc6uth

From Paul_Moller@csg.mot.com Mon Dec 04 14:02:14 1995
Received: from motgate.mot.com (motgate.mot.com [129.188.136.100]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id OAA01636 for <aprssig@tapir.org>; Mon, 4 Dec 1995 14:02:11 -0600 (CST)
Received: from pobox.mot.com (pobox.mot.com [129.188.137.100]) by motgate.mot.com (8.7.1/8.6.10/MOT-3.8) with ESMTP id OAA12757 for <aprssig@tapir.org>; Mon, 4 Dec 1995 14:01:38 -0600 (CST)
Received: from OAMPC10.csg.mot.com (OAMPC10.csg.mot.com [144.188.134.33]) by pobox.mot.com (8.7.1/8.6.10/MOT-3.8) with SMTP id OAA02551 for <aprssig@tapir.org>; Mon, 4 Dec 1995 14:01:34 -0600 (CST)
Received: from PAULM_PC (PaulM_PC.csg.mot.com [144.188.36.8]) by OAMPC10.csg.mot.com (8.6.8.1/8.6.6) with SMTP id OAA03117 for <aprssig@tapir.org>; Mon, 4 Dec 1995 14:08:40 -0600
Date: Mon, 4 Dec 1995 14:08:40 -0600
Message-Id: <199512042008.OAA03117@OAMPC10.csg.mot.com>
X-Sender: mollpj@144.188.134.33
X-Mailer: Windows Eudora Pro Version 2.1.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapir.org
From: Paul Moller <Paul_Moller@csg.mot.com>
Subject: 440 aprs?

Is anybody doing 440 mhz aprs activity? What baud rate are you using? What activity level do you see?

Paul, WD9ABE

From quarry@q.continuum.net Mon Dec 04 14:04:04 1995
Received: from q.continuum.net (q.continuum.net [199.0.52.2]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id OAA02023 for <aprssig@tapir.org>; Mon, 4 Dec 1995 14:03:57 -0600 (CST)
Received: from [199.0.52.58] (cd-9.continuum.net [199.0.52.58]) by q.continuum.net (8.6.11/8.6.9) with SMTP id PAA19865 for <aprssig@tapir.org>; Mon, 4 Dec 1995 15:32:17 -0500
Message-Id: <v01530505ace9047c9dfb@[199.0.52.58]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Mon, 4 Dec 1995 15:03:53 -0500
To: aprssig@tapir.org
From: quarry@q.continuum.net (Chip)

Subject: Re: [APRSSIG:4882] 15 kHz spacing and APRS

At 12:15 12/4/95, Jack Anderson wrote:

> about everything is simplex. Simplex packet digipeaters and nodes
> located at good radio sites stand a much better chance of creating
> adjacent channel interference to each other, since now we're talking
> about "base to base" interference instead of "base to mobile". The
> path is now a line-of-sight path with much less attenuation.

I don't know about that ... most of the time I operate packet anymore it is mobile.

Chip Griffin - President of Thames River Apple Users Group
System Operator of The Quarry (860-889-6427)

```
-----+-----  
quarry@q.continuum.net | N1MIE@n1okk.ct (packet)  
griffge@nu.com         | Chip@1:320/301.0 or .1 (fido)  
emmet2@aol.com         |
```

my home page: <http://q.continuum.net/~quarry/>
TRAUG home page: <http://q.continuum.net/~quarry/TRAUG.html>

From bruninga@nadm.navy.mil Mon Dec 04 15:08:40 1995

Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id PAA03935 for <aprssig@tapr.org>; Mon,
4 Dec 1995 15:08:36 -0600 (CST)

Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
QAA20463; Mon, 4 Dec 1995 16:08:58 -0500

Date: Mon, 4 Dec 1995 16:08:57 -0500 (EST)

From: Bob Bruninga <bruninga@nadm.navy.mil>

To: aprssig@tapr.org

Subject: Re: Magellan Counter Offer

In-Reply-To: <77815F0103@humec.ksu.edu>

Message-ID: <Pine.SUN.3.91.951204160520.20048D-100000@greatlakes>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 4 Dec 1995, Tim Hogard wrote:

> I talked with Magellan today.
> They offer a 10 channel unit for: us\$199 if 50 are ordered.
> Their antenna is \$59. There is a powersupply board for \$40. They have
> This unit does not provide pseudo-ranges and does not do NMEA but provides

ERGO IT IS USELESS! The Magellans started me on the entire APRS concept when

their first boards came out. They lead the field, they soon got the contract for all JAPANESE car makers and have an excellx\ent product, but to make it fit and to meet the Japanses Specs, they dropped NMEA. Stupid move. WWithout NMEA, their GPS is worthless for APRS, unless you want to

add a mircorporcessor to convert their format...

From elekesa@cadvision.com Mon Dec 04 15:20:54 1995
Received: from huey.cadvision.com (huey.cadvision.com [204.50.1.2]) by
sys1.tapir.org (8.7.2/8.7.2) with SMTP id PAA04458 for <aprssig@tapir.org>; Mon, 4
Dec 1995 15:20:48 -0600 (CST)
Received: from [204.50.229.144] by huey.cadvision.com (AIX 4.1/UCB
5.64/4.04.tri.dcx)
id AA42044; Mon, 4 Dec 1995 14:17:23 -0700
Date: Mon, 4 Dec 1995 14:17:23 -0700
Message-Id: <9512042117.AA42044@huey.cadvision.com>
X-Sender: elekesa@huey.cadvision.com
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapir.org
From: elekesa@cadvision.com (aaron elekes)
Subject: Re: [APRSSIG:4886] Re: CHANGE 145.79?!

>Hi Aaron
>Did anyone supply input from Alberta when we had 6 months of data
>collection going on. We wanted to know what was in use Canada wide, and
>I don't remember hearing about Alberta using 145.790. As for Eastern
>Canada, it growing in leaps and bounds on 144.390.

>
>Finger pointing aside, how many digi's are on 145.790 in Alberta?

>
>
>regards...mike

>
>-----

>Michael Walker
>mmwalker@interlog.com
>VA3MW
>

I don't think anyone took the time to let RAC know what was going
on. APRS then was not a big issue. As of today, only a select few have
delegated their time towards APRS. However, we as the select few do wish to
stay compatable with the US.

De Aaron Elekes
VE6FXR
E-mail- ve6fxr@amsat.org

From SGranth@aol.com Mon Dec 04 15:38:25 1995
Received: from emout04.mail.aol.com (emout04.mail.aol.com [198.81.10.12]) by
sys1.tapir.org (8.7.2/8.7.2) with SMTP id PAA05069 for <aprssig@tapir.org>; Mon, 4
Dec 1995 15:38:21 -0600 (CST)
From: SGranth@aol.com
Received: by emout04.mail.aol.com (8.6.12/8.6.12) id QAA24668 for
aprssig@tapir.org; Mon, 4 Dec 1995 16:37:46 -0500
Date: Mon, 4 Dec 1995 16:37:46 -0500
Message-ID: <951204163733_44134854@emout04.mail.aol.com>

To: aprssig@tapr.org
Subject: Fwd: [APRSSIG:4842] CHANGE 145.79?!

Forwarded message:

From: SGranth@aol.com
To: dbarrow@omnifest.uwm.edu, coordinator@cs.tamu.edu
CC: aprsig@tapr.org, regional_freq@tapr.org, amsat-bb@amsat.org,
SGranth@aol.com
Date: 95-12-04 16:12:11 EST

Gentlemen,

I understand there is some, and will be more, discussion on this subject.

Furthermore, since this issue relates to packet radio (man, am I going to catch it for this comment?..), we will probably see many 'flaming hot' messages on the subject from those who have strong feelings, and those who primarily utilize text transmission (writing) to express and vent their anger and frustration.

We do have to realize that this is one of those issues relating to a conflict between the ARS and ASS. These terrestrial vs. space questions are going to require some coordination and communication between the interest groups representing these services.

Though healthy commentary on these issues is certainly encouraged, I think this is an area where the (cough.. cough..) ARRL needs to exhibit it's capability to 'troubleshoot' the situation before it becomes a problem. This is where the League's SMC can, and must, become involved; in planning issues such as this.

In the end, we should all endeavor to use reason. The use of wisdom, knowledge, and understanding is the key to the resolution of problems. We all want it now, instantly. However, It won't be quite that easy.

First, let's have the wisdom to recognize the problem. Let's obtain the knowledge to work the problem. And, finally, let's have the understanding to implement correct and proper change to solve the problem.

Let's all (...the SMC too!) use communication to enhance knowledge.

More than just a tool, communication is a process!

73!

Steve Grantham, N5DWU
SERA Mississippi Director

In a message dated 95-12-03 16:55:07 EST, dbarrow@omnifest.uwm.edu (David W. Barrow III) writes:

>FORWARDED FROM: /mail/db/dbarrow(#7013) From:bruninga@nadm.navy.mil(Bob
>Bruninga)
>Well, I just finished reading the latest AMSAT journal, and it seems
>clear to me that the 145.80 frequency for future manned spacecraft is
>pretty well established WORLDWIDE.
>
>Maybe we on APRS should move down 5 KHz to 145.785.
>
>THis would give us a 15 KHz split between the users down on 145.77 and
>the space guys on 145.80. That should work fine, since 15 KHz splits
>have been shown to work just fine on the 2 meter band with modern rigs.
>
>One further advantage is that most SPACE folks should be encouraged to
>monitor 145.805 since they will first hear the spacecraft with +3 KHz
>doppler anyway. Then they can tune downward if they want to trak the pass.
>

(text deleted...)

From Wb2ngz@aol.com Mon Dec 04 18:34:19 1995
Received: from emout04.mail.aol.com (emout04.mail.aol.com [198.81.10.12]) by
sys1.tapir.org (8.7.2/8.7.2) with SMTP id SAA13593 for <aprssig@tapir.org>; Mon, 4
Dec 1995 18:34:16 -0600 (CST)
From: Wb2ngz@aol.com
Received: by emout04.mail.aol.com (8.6.12/8.6.12) id TAA25651 for
aprssig@tapir.org; Mon, 4 Dec 1995 19:33:44 -0500
Date: Mon, 4 Dec 1995 19:33:44 -0500
Message-ID: <951204192931_64225570@emout04.mail.aol.com>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:4885] Spartan Packet Radio Experiment

Dear Peter:

The Daytona Beach Amateur Radio Association (DBARA) would be interested in
participating in SPRE. Please advise me regarding details of participation
and where I can get the APRtrak program to use for tracking.

Thank you...

Bob Cline, WB2NGZ

From KD4EMI@aol.com Mon Dec 04 20:16:46 1995
Received: from mail02.mail.aol.com (mail02.mail.aol.com [152.163.172.66]) by
sys1.tapir.org (8.7.2/8.7.2) with SMTP id UAA16861 for <aprssig@tapir.org>; Mon, 4
Dec 1995 20:16:41 -0600 (CST)
From: KD4EMI@aol.com
Received: by mail02.mail.aol.com (8.6.12/8.6.12) id VAA29166; Mon, 4 Dec 1995
21:14:57 -0500
Date: Mon, 4 Dec 1995 21:14:57 -0500
Message-ID: <951204211445_44496338@mail02.mail.aol.com>
To: aprssig@tapir.org
cc: miaminet@mcimail.com, DMOBLEY@encore.com,
Bruninga@greatlakes.nadm.navy.mil
Subject: APRS EVENT DETAILS

Well, its over. The AIDS awareness day walkathon has concluded and here is what we learned.

#1 A program that runs on a newton or one of those hand held graphics pads would be STUNNING ! Laptops are too big to carry.

Imagine, you could walk around with race organizers, and show them where their people and resources are. Also, could plunk it on the dashboard and use it as a moving map display while driving. The computer in the car works fine, but we cant lug a laptop around while walking around the park with the race bosses. Can anyone do this kind of software?

#2 Having APRS reduced our voice traffic 90% ! Each ham knew where everyone was without resorting to asking.. Just look at the screen!

#3 We needed a TOTALLY portable APRS machine and KC4NMY came through. His GPS/APRS/TNC/HT/Seismograph/Gieger Counter box with Built-in antenna and decoder ring came to the rescue ! We just handed it to one of the vehicle drivers and there he was on the map. James Bond look out!

If we wanted to change the xmit rate or whatever, we just connected to the KPC and changed what we needed.

The guy in the truck didnt have to operate it at all !!

As it turned out, we did need to access the portable unit and we were able to change parameters during mid race !

#3 Everyone shaved! I made these little ID cards and distributed them to everyone. It had callsign , name and Radio operator on it. Looked like a backstage pass. It was secured with a lanyard around the neck. Amateur radio fashion at its' best. Really looked professional (I thought).

#4 Having a mobile home as our base of operations was terrific ! We could load it up with our goodies (radios, extra batteries, food/drink) and swing by it and restock. The generator and big batteries didnt hurt either.

Now the BAD STUFF.

Not one of the race organizers asked to see our APRS display. Thats why something more portable would be great.

Thats it ...thats the only bad thing.

On a personal note...

Seeing those people walking was very touching. IT would rip your heart out. Scenes like:

The 4 year old boy, paralyzed on the right half of his body, strapped to some kind of walker device, dragging his crippled body, smiling and happy as he crossed the finish line with the crowd cheering and his parents lovingly helping him cross the line was one of the most profound experiences of my entire life.

Or the wheelchair guy who took an extra hour (or was it 2 hours extra) to cross the finish line. He nearly toppled over on the speed bumps in the road. But he didnt stop. HAM OPERATORS were there, (when most of the race

organizers had already left) at the finish line. Credit to K04HD who had to drive his van .003 miles per hour behind the guy for over an hour)

I would like to publicly thank the following operators for their help. We asked them to arrive a 6am on a Sunday and they were there, I am very proud to be their friends...

Dennis KT4FI

Steve K04HD

Jeff KB2LDT

Bob KA2YZM

Seyour KC4NMY

Carl KA40PZ

After witnessing this event, I become aware of how terrible this disease is, and after seeing the victories that people made, I feel recharged in the fact that there are people out there who make a difference. I was very glad to be a small part of it.

73 Mike KD4EMI@AOL.COM

From KSwaggart@aol.com Mon Dec 04 21:05:52 1995

Received: from mail04.mail.aol.com (mail04.mail.aol.com [152.163.172.53]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id VAA18753 for <aprssig@tapr.org>; Mon, 4 Dec 1995 21:05:50 -0600 (CST)

From: KSwaggart@aol.com

Received: by mail04.mail.aol.com (8.6.12/8.6.12) id WAA19277 for aprssig@tapr.org; Mon, 4 Dec 1995 22:05:13 -0500

Date: Mon, 4 Dec 1995 22:05:13 -0500

Message-ID: <951204220511_125080228@mail04.mail.aol.com>

To: aprssig@tapr.org

Subject: Re: MKMAPKKE.ZIP bug

Sorry about the MKMAPKKE bombing. I'm working on a fix, but need to test it some more to make sure I didn't screw something else up! As soon as it is corrected and uploaded to TAPR I'll notify the SIG.

73, Ken, W7KKE

kswaggart@aol.com

From martinbw@TEN-NASH.TEN.K12.TN.US Mon Dec 04 21:21:08 1995

Received: from ten-nash.ten.k12.tn.us (ten-nash.ten.k12.tn.us [198.146.3.220]) by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id VAA19235 for <aprssig@tapr.org>; Mon, 4 Dec 1995 21:21:02 -0600 (CST)

Received: from oscar.tbr.state.tn.us (198.146.3.67) by TEN-NASH.TEN.K12.TN.US (PMDF V4.3-10 #11463) id <01HYF90GWSWI3USCM@TEN-NASH.TEN.K12.TN.US>; Mon, 04 Dec 1995 21:20:56 -0600 (CST)

Date: Mon, 04 Dec 1995 21:20:06 -0600

From: "Bruce W. Martin" <martinbw@TEN-NASH.TEN.K12.TN.US>

Subject: Re: [APRSSIG:4870] Re: CHANGE 145.79?!

To: aprssig@tapr.org

Message-id: <9512042120.AA06343@oscar.tbr.state.tn.us>

MIME-version: 1.0

X-Mailer: InterCon TCP/Connect II 2.3

Content-type: Multipart/Mixed;boundary=part_ACE91686013623C5000000004

Content-transfer-encoding: 7BIT

--part_ACE91686013623C5000000004
Content-Type: Text/Plain; charset=US-ASCII
Content-Disposition: Inline

> As far as a freq is concerned 145.790 is a co-ordinated freq. In
> Canada it has been used by other packet modes before APRS came along
> and to do away with any problems with co-ordination across this
> Country.
> When CRRL set up the Canadian Frequencies it was decided to choose a
> freq for APRS that did not effect any other packet system in use. It
> was mutually decided to use 144.390, as NO other packet stations
> were using it and make it an exclusive "NATIONAL" APRS frequency
> CANADA wide.
> The "Ontario / WNY Packet Advisory Group" led the way in this decision.
> Ontario and Western New York have been using 144.390 for the last
> year for APRS.
> If you are going to move your 145.790 at all let it be to a
> co-ordinated frequency, that is NOT being used by any other packet or
> FM mode. Might I suggest doing as Canada has done and move down
> to 144.390 across all of North America.

While I am not in favor of moving, I now understand a little better the
ramifications with the space folks. For me, a move to 144.39 would be
infinitely more feasible than a move to 145.785. If we are going to move I like
this idea best.

73 de KQ4TV

--part_ACE91686013623C5000000004
Content-Transfer-Encoding: Quoted-Printable
Content-Type: Text/Plain; charset=ISO-8859-1
Content-Disposition: Inline

--

* Bruce W. Martin Internet: martinbw@ten-nash.tn.k12.tn.us *
* 4558 Brooke Valley Dr. HAM Call: KQ4TV *
* Hermitage TN 37076-2650 ICBM/ALCM *
* Voice: (615) 872-9942 Address: 36°B010'30"N/86°B035'30"W *=
* FAX/MODEM: (615) 885-4182 APRS: 3610.50N/08635.50W *
* URL: http://www.tbr.state.tn.us/~martinbw/home.html *
* I have a 486DX33 to play games and run some HAM programs, *
* when I want to do serious work I use a Macintosh. *

--part_ACE91686013623C5000000004--

From rwf@mindspring.com Tue Dec 05 09:00:42 1995
Received: from borg.mindspring.com (root@borg.mindspring.com [204.180.128.14]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id JAA09851 for <aprssig@tapr.org>; Tue, 5
Dec 1995 09:00:38 -0600 (CST)
Received: from rwf.mindspring.com [168.121.44.154] by borg.mindspring.com

with SMTP id AAA20780 for <aprssig@tapr.org>; Tue, 5 Dec 1995 00:33:02 -0500
Date: Tue, 5 Dec 1995 00:33:02 -0500
Message-Id: <199512050533.AAA20780@borg.mindspring.com>
X-Sender: rwf@mindspring.com
X-Mailer: Windows Eudora Version 2.1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: rwf <rwf@mindspring.com>
Subject: Mapfix Bug

Bob-

I have located a possible bug in Mapfix. It shows up in (at least) versions 16 and 17.

I was using the program to make 1 mile Atlanta area maps when I noticed that the lat/long display box was behaving strangely. The problem involves the data on the left side of the box (the side with the degrees, minutes.tenths of minutes)

When cursoring up from 33 degrees thru 34 degrees, the calculation is way off just above 34, 0.0. Just after passing 34 degrees, the display reading varies between 0 and 9 minutes, then goes back to less than 1 minute, then begins incrementing normally.

I tried several other similar places where degrees clicked over and this was the only place I noticed it.

To test this, place your cursor just below 34 degrees, zoom all the way in and move the cursor up. You'll see the problem.

Ralph

From ke4eer@ro.com Tue Dec 05 09:01:52 1995
Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id JAA09930 for <aprssig@tapr.org>; Tue, 5 Dec 1995 09:01:49 -0600 (CST)
Received: from ts1p9.ro.com (ts1p9.ro.com [205.216.92.29]) by sh1.ro.com (8.6.9/8.6.9) with SMTP id BAA15326 for <aprssig@tapr.org>; Tue, 5 Dec 1995 01:59:43 -0600
Message-Id: <199512050759.BAA15326@sh1.ro.com>
X-Mailer: InternetWorks Mail and News 1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Tue, 05 Dec 1995 00:52:42
From: ke4eer@ro.com (William Nolle)
To: aprssig@tapr.org
Subject: Tapr problem

Again all day today i have not been able to access anything on Tapr for some reason. No FTP nor even able to access anything to do with Tapr. Anybody have that same problem???

Bill KE4EER

From DDOBBINS@aol.com Tue Dec 05 09:02:43 1995
Received: from emout06.mail.aol.com (emout06.mail.aol.com [198.81.10.43]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id JAA10059 for <aprssig@tapr.org>; Tue, 5 Dec 1995 09:02:40 -0600 (CST)
From: DDOBBINS@aol.com
Received: by emout06.mail.aol.com (8.6.12/8.6.12) id KAA09747 for aprssig@tapr.org; Tue, 5 Dec 1995 10:02:08 -0500
Date: Tue, 5 Dec 1995 10:02:08 -0500
Message-ID: <951205100205_45025490@emout06.mail.aol.com>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:4850] Re: CHANGE 145.79?!

I shaketh my head laterally, indicating NO.

Don't change from 145.79.

Aloha, now back to the beach. Dave.

From kc5ejk@onramp.net Tue Dec 05 09:03:17 1995
Received: from mailhost.onramp.net (mailhost.onramp.net [199.1.11.3]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id JAA10277 for <aprssig@tapr.org>; Tue, 5 Dec 1995 09:03:14 -0600 (CST)
Received: from [199.1.11.146] (dal146.onramp.net [199.1.11.146]) by mailhost.onramp.net (8.6.12/8.6.5) with SMTP id AAA01400 for <aprssig@tapr.org>; Tue, 5 Dec 1995 00:01:10 -0600
Message-Id: <v02130501ace8dc0de582@[199.1.11.103]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Tue, 5 Dec 1995 00:01:40 -0600
To: aprssig@tapr.org
From: kc5ejk@onramp.net (Robert Winingham)
Subject: EUROMIR + SAFEX FREQUENCY CLARIFICATION

More Background information.

>Date: 18 Sep 95 10:09:03 EDT
>From: Norbert Notthoff <100114.1050@compuserve.com>
>To: AMSAT-BB <AMSAT-BB@amsat.org>
>Cc: "David Cowdin, WD0HHU" <70524.2272@compuserve.com>
>Subject: EUROMIR + SAFEX FREQUENCY CLARIFICATION
>
>EUROMIR AND SAFEX FREQUENCY CLARIFICATION
>-----
>

>Unfortunately there has been spread some out-of-date information
>about the EUROMIR/SAFEX 2 m frequencies from the USA.
>
>We cancelled the 2 m frequencies published some weeks ago in our
>club magazine cq-DL due to heavy complaints in Europe:
>
>145.850 MHz would cause interference to the uplink of important
>satellites like KITSAT-OSCAR-23 and others. Additionally AMSAT
>groups in Europe do for good reasons not want to have manned
>spacecraft traffic within the 2 m satellite subband. They agree
>to use the band edge, however.
>
>There are heavy complaints about the other frequencies too. HAMS in
>Europe are VERY sensitive to these things, since there had been some
>SAREX activity in FM and Packets modes just in the 144.400-144.500
>MHz segment, which is reserved for CW/SSB use ONLY in IARU Region 1,
>and which is intensively being used for METEORSCATTER activities in
>Europe. Many hams are now aware of possible bandplan violations and
>do complain immediately, when MIR or SHUTTLE activities are on
>frequencies which do not fit the bandplan.
>
>So we decided to use 145.200, 145.550, and 145.800 MHz, which have
>been chosen at the IARU Forum of this year's AMSAT-UK Colloquium.
>
>Please note, that the 2 metre band in Europe is 144.000-146.000 MHz
>ONLY, and that we have very dense population and lots of VHF activity
>in Europe. So it is nearly impossible to find a "clear" frequency in
>the 2 metre band.
>
>We will definitely not change the frequencies again because there are
>problems in one part of the world, as long as we are not shure that
>a new chosen frequency will not cause bad interference in the other
>parts of the world or even to the OSCAR satellites. The situation in
>Europe is particularly complicated and sensitive.
>
>73 de Norbert, DF5DP (DARC Coordintaor Satellites And Space Projects)

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

From bruninga@nadm.navy.mil Tue Dec 05 09:08:56 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id JAA10705 for <aprssig@tapr.org>; Tue,
5 Dec 1995 09:08:49 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
AAA24191; Tue, 5 Dec 1995 00:07:48 -0500
Date: Tue, 5 Dec 1995 00:07:47 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapr.org
cc: amsat-bb@amsat.org
Subject: 145.79 again.
Message-ID: <Pine.SUN.3.91.951204235412.23910F-100000@greatlakes>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Well, apparently my idea to solve the future problem with SAREX and Space station on 145.80 by moving APRS down 5 Khz has met with overwhelming opposition by everyone. Most vociferously the folks on 145.77 who dont want to have a 15 KHz neighbor on 145.785...

No one, especially the most contemptuous responses offered any other solution other than "IM NOT MOVING"...

Oh well, seemed like a workable compromise to me...

In view of the explosive growth of 145.79 networks, it will be impossible to fix this problem later. Maybe the possibility of moving the SPACE STATION up to 145.805 should be re-addressed...

From bruninga@nadm.navy.mil Tue Dec 05 09:09:00 1995

Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id JAA10718 for <aprssig@tapr.org>; Tue, 5 Dec 1995 09:08:55 -0600 (CST)

Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id XAA23942; Mon, 4 Dec 1995 23:37:28 -0500

Date: Mon, 4 Dec 1995 23:37:27 -0500 (EST)

From: Bob Bruninga <bruninga@nadm.navy.mil>

To: aprssig@tapr.org

Subject: Re: [APRSSIG:4893] Re: Spartan Packet Radio Experiment

In-Reply-To: <951204192931_64225570@emout04.mail.aol.com>

Message-ID: <Pine.SUN.3.91.951204233122.23910D-100000@greatlakes>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

> The Daytona Beach Amateur Radio Association (DBARA) would be interested in
> participating in SPRE. Please advise me regarding details of participation
> and where I can get the APRtrak program to use for tracking.

APRtrak has been donated to AMSAT and is available on the amsat BBS. I forget the exact path, but it is something like software/tracking/PC...

It is also available on tapr.org in the tapr/SIG/aprssi/upload directory.

From bruninga@nadm.navy.mil Tue Dec 05 09:09:08 1995

Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id JAA10744 for <aprssig@tapr.org>; Tue, 5 Dec 1995 09:09:00 -0600 (CST)

Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id XAA23967; Mon, 4 Dec 1995 23:53:45 -0500

Date: Mon, 4 Dec 1995 23:53:45 -0500 (EST)

From: Bob Bruninga <bruninga@nadm.navy.mil>

To: aprssig@tapr.org

Subject: Cheap digis \$50

Message-ID: <Pine.SUN.3.91.951204234823.23910E-100000@greatlakes>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Dick Smith in Tennessee just made me aware of someone listing 50 or so MAXAR-80 transceivers for \$50 each. These are good quality commercial radios with helical front ends. They are single or dual channel crystal controlled. They tune to 145.79 but he doesn't think they will all reliably go as far down as 145.01,

When I called today, he only had about 10 left. I don't have one and am not getting one, since I already have more commercial junk lying around than I can ever get tuned up. But if anyone is building a digi, these sound great. Call Henry Hamblin at 606 528-8961 somewhere in Tennessee I think. He ships them for about \$6.50 each...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

From n2czf@gate.net Tue Dec 05 09:11:55 1995
Received: from mail1.gate.net (mail1.gate.net [199.227.0.18]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id JAA10937 for <aprssig@tapir.org>; Tue, 5 Dec 1995 09:11:51 -0600 (CST)
From: n2czf@gate.net
Received: from tequesta.gate.net (root@tequesta.gate.net [199.227.0.12]) by mail1.gate.net (8.6.12/8.6.9) with ESMTP id XAA19518 for <aprssig@tapir.org>; Mon, 4 Dec 1995 23:25:45 -0500
Received: from 199.227.125.144 (wpbfl2-16.gate.net [199.227.125.144]) by tequesta.gate.net (8.6.9/8.6.9) with SMTP id XAA10027 for <aprssig@tapir.org>; Mon, 4 Dec 1995 23:24:18 -0500
Date: Mon, 4 Dec 1995 23:24:18 -0500
Message-Id: <199512050424.XAA10027@tequesta.gate.net>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Subject: Re: [APRSSIG:4895] Re: MKMAPKKE.ZIP bug
To: aprssig@tapir.org
In-Reply-To: <951204220511_125080228@mail04.mail.aol.com>
X-Mailer: SPRY Mail Version: 04.00.06.17

Hey Ken, don't be sorry! I am grateful for all the wonderful programming you, Bob, Keith, Marc and all the others on the sig do. Mistakes happen, it is part of improving software from time to time.

I am just happy that someone out there has the smarts to do the programming for the likes of "appliance operators" like me!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

From gerry@cs.tamu.edu Tue Dec 05 09:17:49 1995
Received: from cs.tamu.edu (clavin.cs.tamu.edu [128.194.130.106]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id JAA11256 for <aprssig@tapir.org>; Tue, 5 Dec 1995 09:17:46 -0600 (CST)

Received: from solar.cs.tamu.edu (2961@solar.cs.tamu.edu [128.194.132.1]) by cs.tamu.edu (8.6.10/8.6.4) with ESMTP id IAA01108 for <aprssig@tapr.org>; Tue, 5 Dec 1995 08:16:11 -0600

From: Gerald J Creager <gerry@cs.tamu.edu>

Received: (gerry@localhost) by solar.cs.tamu.edu (8.6.10/8.6.4) id IAA02401 for aprssig@tapr.org; Tue, 5 Dec 1995 08:16:06 -0600

Message-Id: <199512051416.IAA02401@solar.cs.tamu.edu>

Subject: Re: [APRSSIG:4887] Re: CHANGE 145.79?!

To: aprssig@tapr.org

Date: Tue, 5 Dec 1995 08:16:05 -0600 (CST)

In-Reply-To: <v01520d06ace88efc2c07@[129.131.31.10]> from "Jan A. Barglowski" at Dec 4, 95 01:53:58 pm

X-Mailer: ELM [version 2.4 PL24]

Content-Type: text

Jan A. Barglowski sez:

>

> A point I haven't seen mentioned yet:

>

> Which is more useful to you? Having amateurs talk to the astronauts or
> having an APRS network that could be used in emergencies, public events,
> etc. Seems to me that the amateurs that contact manned space operations
> pretty much do it for the thrill of the contact. I vote in favor of a
> useful APRS network.

Oh. I'm sorry. You could be right. If you had your facts right.

The primary reason for SAREX is not for the HAMS to talk to the astronauts. It's to provide a unique educational and motivational opportunity to school children.

Listen up, guys. There is no reason why Manned Space activities, which predate APRS *AND* Packet, can't co-exist with the rest of ham radio. I can speak for SAREX in saying that they've gone a long way toward coexistence by trying to accommodate a number of complaints about the SAREX frequencies by relocation.

Let me talk technology here for a while. And bureaucracy.

1. the SAREX radio routinely manifested for flight is a Motorola MX-300 series radio. It is EPROM-tuned. For reasons of reliability and quality assurance, SAREX has the programming done by Motorola, in Plantation Florida, shipping all flight radios and training radios back to the factory for checkout. Upon their return, someone has to test and verify, under written test procedures, that all the radios are really on the frequencies they're supposed to be.

Did I mention Flight Hardware? The 2-week process associated with shipping Flight Hardware is something to behold, too.

Selection of frequencies for use is a subject that must be approved within the NASA community, as well. Since there is not a spare Orbiter with all systems intact at NASA/JSC, most of the determination is based on analysis. If a potential problem is determined, the easiest way to fix it is to tell SAREX

"NO." In point of fact, this has happened on several flights, where unpredicted malfunctions occurred. Until some determination of the real problem evolved, SAREX was off.

Selection of frequencies is also an international effort by ARRL and AMSAT. While I hesitate to use the terms "nationwide" and "bandplan" in the same sentence, in some cases, it's appropriate. Space is coordinated by treaty agreement from 145.800-146.000 MHz. Depending on regional bandplans, repeater inputs start at 146.01 or 146.02, in the US. In other portions of the world, the entire amateur allocation for 2 meters is 2MHz or less, frequently ending at 146.00. It's been over 2 years in the making, to get a new set of allocations for manned space operations. Oh, and while you're commenting on how happy Mir is with 145.55 operations, please recall the two reasons THAT was chosen: 1. SAREX had established a 145.55 MHz downlink back in the dim recesses of history, when Owen Garriott, W5LFL, flew on STS-51C, AND, someone had preset the original Mir radio to that frequency, and the Cosmonauts didn't have to change it.

There was serious complaining about Mir's use of SAREX's "channel" when they came up the first time! (Not, I might add, from SAREX) But upon the return of SAREX to operation with STS-35, in 1985, a real firestorm erupted: The DX Cluster community was all up in arms that the "newcomer" operation, SAREX, had stolen their channels! (SAREX uplinks had previously been 144.91-144.99, with a preference for 144.95 to preserve the utility of a .6 MHz split) Over time, the community and SAREX reached a truce: SAREX is only overhead for brief periods, and was not demonstrated to really screw up their operations...

Telling Manned Space operations to move AGAIN is not likely to help much. There is significantly more mass there to get moving than there is with APRS. Personally, while Bob's suggestion has merit for altruism, I do not think there is a hard technical requirement for moving IF we make sure our radios and TNCs are set up properly.

73, gerry

--

Gerry Creager	N5JXS	* SAREX Co-Investigator
gerry@cs.tamu.edu		* A little radio that lets kids talk
		* to astronauts, and smile

From Paul_Moller@csg.mot.com Tue Dec 05 09:21:47 1995

Received: from motgate.mot.com (motgate.mot.com [129.188.136.100]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id JAA11837 for <aprssig@tapir.org>; Tue, 5 Dec 1995 09:21:43 -0600 (CST)

Received: from pobox.mot.com (pobox.mot.com [129.188.137.100]) by motgate.mot.com (8.7.1/8.6.10/MOT-3.8) with ESMTP id JAA03255 for <aprssig@tapir.org>; Tue, 5 Dec 1995 09:21:10 -0600 (CST)

Received: from OAMPC10.csg.mot.com (OAMPC10.csg.mot.com [144.188.134.33]) by pobox.mot.com (8.7.1/8.6.10/MOT-3.8) with SMTP id JAA25291 for <aprssig@tapir.org>; Tue, 5 Dec 1995 09:21:08 -0600 (CST)

Received: from PAULM_PC (PaulM_PC.csg.mot.com [144.188.36.8]) by OAMPC10.csg.mot.com (8.6.8.1/8.6.6) with SMTP id JAA11408 for <aprssig@tapir.org>; Tue, 5 Dec 1995 09:28:20 -0600

Date: Tue, 5 Dec 1995 09:28:20 -0600
Message-Id: <199512051528.JAA11408@OAMPC10.csg.mot.com>
X-Sender: mollpj@144.188.134.33
X-Mailer: Windows Eudora Pro Version 2.1.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: Paul Moller <Paul_Moller@csg.mot.com>
Subject: Baycom tnc in a connector

Does anyone know if it is possible to use a Baycom TNC in a connector with APRS? I think this question was posed a while ago, but I can't seem to find an answer. Even if it could be made to work RX only would be ok.

Paul, WD9ABE

From lancer@airways.com Tue Dec 05 09:23:14 1995
Received: from sonic.net (root@sonic.net [199.4.118.11]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id JAA11903 for <aprssig@tapr.org>; Tue, 5 Dec 1995 09:23:07 -0600 (CST)
Received: from pm141.sonic.net (pm141 [199.4.118.141]) by sonic.net (8.6.10/8.6.10) with SMTP id VAA03504 for <aprssig@tapr.org>; Mon, 4 Dec 1995 21:06:55 -0800
Date: Mon, 4 Dec 1995 21:06:55 -0800
Message-Id: <199512050506.VAA03504@sonic.net>
X-Sender: lancer@pop.sonic.net
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: lancer@airways.com (Lance Robinson)
Subject: Re: [APRSSIG:4825] Re: GPS simultaneous parallel tracking

As I remember, the EPROM style PIC chip (16C54) is about \$20. The write once type is below \$10. The Intel 87C51 (w/EPROM) costs about \$30. The advantage to the 87C51 is that it has serial hardware. On the PIC chip you have to meticulously program the serial timing. The PIC documentation has some routines to do either input or output, but I don't recall any simultaneous input/output routines as would be needed for a translator device. With both parts, you still need a serial transceiver to produce the correct serial voltage levels.

BTW, I have a PROM programmer that can program both the PIC and Intel devices.

>> <I Previously wrote...> <snip...>
>> Your best bet would probably be to build a translator device that
>> translates your GPS's output to the NMEA codes. There are some relatively
>> cheap single board computers (\$150) that could be programmed to do the
>> needed translation. If you are a little more industrious, you could put
>> together a simple board with a microcontroller (87C51--has built in EPROM
>> and serial output) and a serial transceiver chip.
>> If you send me the format of your GPS's output, I'd be willing to look
>> at it and give you more feedback. If you e-mail me, don't expect a reply
>> until after Monday--I'll be out of town.

"Jim Lynch" <k4gvo@america.net> Wrote:

>The little PIC chips would be able to handle that I'd thing. Those
>are rather cheap. Less than \$100. Someone with the development
>tools would have to develop it, though.

-----<><
D.Lance Robinson (lancer@airways.com)
Office: (707)526-6488 ! /==\ /7 /-----
Fax: (707)526-5643 <=====! ----(Airways Technology, Inc. (
Home: (707)823-8227 ! 8 \-----

From S.Miller@RUS.Uni-Stuttgart.DE Tue Dec 05 09:26:33 1995

Received: from artemis.rus.uni-stuttgart.de (artemis.rus.uni-stuttgart.de
[129.69.18.28]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id JAA11331 for
<aprssig@tapir.org>; Tue, 5 Dec 1995 09:18:12 -0600 (CST)

Received: from intelsun.rus.uni-stuttgart.de (intelsun.rus.uni-stuttgart.de
[129.69.13.50]) by artemis.rus.uni-stuttgart.de with SMTP id JAA09987

(8.6.12/IDA-1.6 for <aprssig@tapir.org>; Tue, 5 Dec 1995 09:19:46 +0100

Received: by intelsun.rus.uni-stuttgart.de (4.1/BelWue-1.1S(subsidiary))
id AA05367; Tue, 5 Dec 95 09:24:35 +0100

From: S.Miller@RUS.Uni-Stuttgart.DE (Shannon Miller)

Message-Id: <9512050824.AA05367@intelsun.rus.uni-stuttgart.de>

Subject: Re: [APRSSIG:4888] 440 aprs?

To: aprssig@tapir.org

Date: Tue, 5 Dec 1995 09:24:35 +0100 (MET)

In-Reply-To: <199512042008.0AA03117@OAMPC10.csg.mot.com> from "Paul Moller" at Dec
4, 95 02:13:26 pm

X-Mailer: ELM [version 2.4 PL21]

Content-Type: text

Paul Moller writes:

>

> Is anybody doing 440 mhz aprs activity? What baud rate are you using? What
> activity level do you see?

>

> Paul, WD9ABE

We're on 440 here, 1200 baud, going through a couple of existing packet
digis which are on a 9600 baud (or 19200 baud) backbone. But that's just
for testing (yes, we know that the backbone takes away some APRS capability,
but we have no choice at the moment!). We're just getting started here
in Germany, and are still pondering what to do about finding a frequency
for us. First we've got to get more people on the air with APRS here,
so that at least one APRS station can hear at least one other directly!

I got a message from DF2DR once explaining why almost none of the
recommended APRS frequencies in the U.S. will work in Europe, so any
hope of an international APRS standard frequency list (even on HF)
went right out the window. :-(Unless the international APRS
community is willing to start all over again...

Is there anyone who does NOT get a headache when working on a freq. coordination problem?

--Shannon, DL6SEU (AKA N7APC)

From 0004818186@mcimail.com Tue Dec 05 09:39:35 1995
Received: from gatekeeper2.mcimail.com (gatekeeper2.mcimail.com [192.147.45.10]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id JAA12933 for <aprssig@tapir.org>; Tue, 5 Dec 1995 09:39:31 -0600 (CST)
Received: from mailgate2.mcimail.com (mailgate2.mcimail.com [166.38.40.100]) by gatekeeper2.mcimail.com (8.6.12/8.6.10) with SMTP id OAA05001; Tue, 5 Dec 1995 14:11:50 GMT
Received: by mailgate2.mcimail.com id ab21688; 5 Dec 95 14:10 WET
Received: from mcimail.com by mailgate2.mcimail.com id ab15543;
5 Dec 95 10:03 WET
Date: Tue, 5 Dec 95 05:02 EST
From: Miami Network <0004818186@mcimail.com>
To: KD4EMI <KD4EMI@aol.com>
Cc: aprssig <aprssig@tapir.org>, DMOBLEY <DMOBLEY@encore.com>, Bruninga <Bruninga@greatlakes.nadn.navy.mil>
Subject: RE: APRS EVENT DETAILS
Message-Id: <53951205100235/0004818186NA3EM@MCIMAIL.COM>

Mike:

Thank you for allowing me to be part of the AIDS Walkathon Event.

We are all very pleased with your forward motion thaat you have taken and the effort to market this event and gain the involvement of the Amateur Radio Community was commendable.

73, Seymour, KC4NMY

From DDOBBINS@aol.com Tue Dec 05 09:40:53 1995
Received: from emout05.mail.aol.com (emout05.mail.aol.com [198.81.10.37]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id JAA12956 for <aprssig@tapir.org>; Tue, 5 Dec 1995 09:40:43 -0600 (CST)
From: DDOBBINS@aol.com
Received: by emout05.mail.aol.com (8.6.12/8.6.12) id KAA21175 for aprssig@tapir.org; Tue, 5 Dec 1995 10:40:10 -0500
Date: Tue, 5 Dec 1995 10:40:10 -0500
Message-ID: <951205104008_45058985@emout05.mail.aol.com>
To: aprssig@tapir.org
Subject: Test msg, pls disregard

Well, if you read this anyhow, I logged on and got a NO MAIL que, which is next to impossible, since there's always something incoming from the SIG. Up'ing this file now and waiting to see if the mailbox light comes on. May have been dropped again. Aloha, Dave. (Not going to beach yet).

From kirk@neptune.gsfc.nasa.gov Tue Dec 05 09:50:17 1995
Received: from gsfc.nasa.gov (tinker-toy.gsfc.nasa.gov [128.183.50.19]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id JAA13477 for <aprssig@tapir.org>; Tue, 5

Dec 1995 09:50:11 -0600 (CST)
Received: from neptune.gsfc.nasa.gov by gsfc.nasa.gov (5.65/Ultrix3.0-C)
id AA08593; Tue, 5 Dec 95 10:50:05 -0500
Received: from isobar by neptune.gsfc.nasa.gov via SMTP
(950911.SGI.8.6.12.PATCH825/920502.SGI)for <aprssig@tapr.org> id KAA17893; Tue, 5
Dec 1995 10:55:28 -0500
Message-Id: <199512051555.KAA17893@neptune.gsfc.nasa.gov>
X-Sender: kirk@neptune
X-Mailer: Windows Eudora Pro Version 2.1.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Tue, 05 Dec 1995 10:50:44 -0500
To: aprssig@tapr.org
From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>
Subject: Re: APRS EVENT DETAILS

Mike KD4EMI@AOL.COM wrote:
>Well, its over. The AIDS awareness day walkathon has concluded and here is
>what we learned.
>
>#1 A program that runs on a newton or one of those hand held graphics
>pads would be STUNNING ! Laptops are too big to carry.
>
>Imagine, you could walk around with race organizers, and show them
>where their people and resources are. Also, could plunk it on the
>dashboard and use it as a moving map display while driving. The computer in
>the car works fine, but we cant lug a laptop around while
>walking around the park with the race bosses. Can anyone do this kind of
>software?
>[...]

The HP 100LX palmtop works fine with APRS, although the aspect ratio
of the map is a little squished, and it will fit in you hip pocket.

Bob Kirk
N30ZB

From DDOBBINS@aol.com Tue Dec 05 10:39:36 1995
Received: from mail04.mail.aol.com (mail04.mail.aol.com [152.163.172.53]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id KAA15126 for <aprssig@tapr.org>; Tue, 5
Dec 1995 10:39:29 -0600 (CST)
From: DDOBBINS@aol.com
Received: by mail04.mail.aol.com (8.6.12/8.6.12) id AAA09118 for aprssig@tapr.org;
Tue, 5 Dec 1995 00:31:23 -0500
Date: Tue, 5 Dec 1995 00:31:23 -0500
Message-ID: <951205003033_125233361@mail04.mail.aol.com>
To: aprssig@tapr.org
Subject: HAWAII AERO-MOBILE EVENT

Aloha all. Ted/NH6YK, pilot extraordinaire, and I, Dave/WH6YC, beachgoer
regulaire, will be aeronautical mobile around Oahu next week one day, Dec
11-15, with APRS onboard. We will uplink occassional position reports to HF.
The flight will be coincident with a band opening on 30M, which usually

starts about 1700 west coast time. We will uplink thru our local WIDE digi, and encourage acknowledgement by short one-liner. We intend to videotape the event for playback at an upcoming ARC meeting. FYI, the WIDE digi on Oahu will move soon to atop a mountainridge above Waikiki and Waimanalo, at 2700 feet. We're curbing output on the 100watt radio so as to not interfere w/the satellite subband. We'll call our presence on 145.79 as "established" vice coordinated. I don't know if we do that coord stuff over here. Honolulu Marathon is this Sunday, December 10th. We have 3 APRS trackers for the Lead Male, Lead Female, and primary Doctor transport vehicle, and will be using APRSDR to track the Lead Wheelchair, course record, and pack. Wish us luck. Must be snowing on the mainland, cuz I feel like heading for the beach. Aloha, Dave.

From JAgrelo@aol.com Tue Dec 05 10:56:52 1995
Received: from emout04.mail.aol.com (emout04.mail.aol.com [198.81.10.12]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id KAA15690 for <aprssig@tapr.org>; Tue, 5 Dec 1995 10:55:56 -0600 (CST)
From: JAgrelo@aol.com
Received: by emout04.mail.aol.com (8.6.12/8.6.12) id LAA14523 for aprssig@tapr.org; Tue, 5 Dec 1995 11:54:51 -0500
Date: Tue, 5 Dec 1995 11:54:51 -0500
Message-ID: <951205115450_64679424@emout04.mail.aol.com>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:4898] Tapr problem

In a message dated 95-12-05 11:17:20 EST, you write:

>Again all day today i have not been able to access anything on Tapr for some
>reason. No FTP nor even able to access anything to do with Tapr. Anybody
>have that same problem???
>
>Bill KE4EER

Yes me too, no access.

Our web page grows bigger, now all you have to do is type an associated word from the web crawler like agrelo, dfjr, rdf, and bingo your at Agrelo Engineering.

73 de Joe N200C

Joe Agrelo/N200C
Agrelo Engineering
Ph (518)381-1057
Fx (518)381-1058

E-mail- jagrelo@aol.com

In the Web <http://home.navisoft.com/agrelo/ae.htm>
Designer and Manufacturers of intelligent microprocessor based Doppler
and talking products
Experts in Microchip and Motorola processors
Cruise Missile Coordinates 42 47.427N, 073 56.525W

From rholbert@manny.rcinet.com Tue Dec 05 11:44:57 1995
Received: from nohar.rcinet.com (nohar.rcinet.com [157.134.207.6]) by
sys1.tapr.org (8.7.2/8.7.2) with ESMTP id LAA17437 for <aprssig@tapr.org>; Tue, 5
Dec 1995 11:44:26 -0600 (CST)
Received: (from smap@localhost) by nohar.rcinet.com (8.7.1/8.6.12) id MAA09376 for
<aprssig@tapr.org>; Tue, 5 Dec 1995 12:44:01 -0500 (EST)
Received: from manny.rcinet.com(199.18.212.6) by nohar.rcinet.com via smap (V1.3)
id sma009374; Tue Dec 5 12:43:46 1995
Received: (from smap@localhost) by manny.rcinet.com (8.7.1/8.6.12) id MAA07785 for
<aprssig@tapr.org>; Tue, 5 Dec 1995 12:43:45 -0500 (EST)
Message-Id: <199512051743.MAA07785@manny.rcinet.com>
Received: from rcinet-237.rcinet.com(199.18.212.237) by manny.rcinet.com via smap
(V1.3)
id sma007767; Tue Dec 5 12:43:23 1995
To: aprssig@tapr.org
From: "Richard L. Holbert" <rholbert@manny.rcinet.com>
Subject: RE: [APRSSIG:4898] Tapr problem
Date: Tue, 5 Dec 1995 12:43:13
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

It's working now!

On Tue, 5 Dec 1995 09:08:25 -0600 (CST),
aprssig@tapr.org wrote...
>Again all day today i have not been able to access anything on Tapr for
>some
>reason. No FTP nor even able to access anything to do with Tapr. Anybody
>have that same problem???
>
>Bill KE4EER
>
>
>
>
>

Rick Holbert

Ham: KB8DNR
Work: rholbert@arinc.com
Home: rholbert@rcinet.com
WWW: <http://www.dma.org/~holbertr>

From rwf@mindspring.com Tue Dec 05 12:02:11 1995
Received: from borg.mindspring.com (root@borg.mindspring.com [204.180.128.14]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id MAA18090 for <aprssig@tapr.org>; Tue, 5
Dec 1995 12:02:00 -0600 (CST)
Received: from rwf.mindspring.com [168.121.44.154] by borg.mindspring.com

with SMTP id NAA11431 for <aprssig@tapr.org>; Tue, 5 Dec 1995 13:01:49 -0500
Date: Tue, 5 Dec 1995 13:01:49 -0500
Message-Id: <199512051801.NAA11431@borg.mindspring.com>
X-Sender: rwf@mindspring.com
X-Mailer: Windows Eudora Version 2.1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: rwf <rwf@mindspring.com>
Subject: Re: [APRSSIG:4906] Baycom tnc in a connector

A Baycom is only a *MODEM* not a TNC. The TNC-like functions are handled in the software running on the PC connected to the MODEM.

APRS requires a TNC.

Unless Bob wanted to add MODEM drivers to his code, which I feel is unlikely, the Baycom is not going to work.

TNCs are small enough now, and reasonably priced enough (See the Pico-Packet from Paccomm) that I seriously wonder why anyone would mess with a Baycom type device now anyway. But I have one if you know anyone who wants to buy it.

Ralph
N4NEQ

At 09:35 AM 12/5/95 -0600, you wrote:

>Does anyone know if it is possible to use a Baycom TNC in a connector with
>APRS? I think this question was posed a while ago, but I can't seem to find
>an answer. Even if it could be made to work RX only would be ok.

>

>Paul, WD9ABE

>

>

From bruninga@nadm.navy.mil Tue Dec 05 12:02:53 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id MAA18122 for <aprssig@tapr.org>; Tue,
5 Dec 1995 12:02:44 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
NAA03315; Tue, 5 Dec 1995 13:03:00 -0500
Date: Tue, 5 Dec 1995 13:03:00 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapr.org
Subject: BETAb.zip for PK-900 and 2232
Message-ID: <Pine.SUN.3.91.951205125851.3064B-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I made another stab at band switching the AEA dual ports. It is betab.exe and is zipped up as betab.zip. Again, it would NOT upload to

my internet server with Kermit. So I posted it on 410 280-2503 BBS.

It also should solve the garbled call problem seen in Germany...

betab.exe will identify itself as 74.d, but it is NOT (yet).

If you have a PK-900 or DSP-2232 please see if this version does properly band switch. You MUST start betab.exe from scratch so that it can ask you about your TNC...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

From rwf@mindspring.com Tue Dec 05 12:18:22 1995
Received: from borg.mindspring.com (root@borg.mindspring.com [204.180.128.14]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id MAA18725 for <aprssig@tapr.org>; Tue, 5 Dec 1995 12:17:59 -0600 (CST)
Received: from rwf.mindspring.com [168.121.44.154] by borg.mindspring.com with SMTP id NAA15546 for <aprssig@tapr.org>; Tue, 5 Dec 1995 13:17:35 -0500
Date: Tue, 5 Dec 1995 13:17:35 -0500
Message-Id: <199512051817.NAA15546@borg.mindspring.com>
X-Sender: rwf@mindspring.com
X-Mailer: Windows Eudora Version 2.1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: rwf <rwf@mindspring.com>
Subject: New *HIGH* APRS DIGI for NC /TN / GA

For those of you keeping track, or planning travel to the area, we have placed a new APRS digipeater on a 4800 ft hill in extreme SW North Carolina.

The digi is located at Andrews NC and has already shown that it can connect directly to Columbus, GA, Birmingham, AL, Atlanta, GA, Huntsville, AL and all of the other Digis in TN except for Nashville. The other packet digi on the same site connects easily to southern VA as well, so if APRS gets active there, we may have a path. Yes, Bill KE4EER can work it direct from 153 miles away in Hazel Green, AL. Haven't yet tested the range to the beach in Hawaii, yet though :).

It's an easy hop over to the DIGIS in the Knoxville area that already serve middle/east TN so well, but don't do much for NC due to mountains like this one.

It is currently a WIDE-RELAY and I will list the beacon text below so Bob and Keith can add it to their lists.

Hardware is a GE MVP running 25 watts into a db Products pass cavity and 9913 feedline into a Hustler G-7.
Commercial equipment and pass cavities make for GOOD ham radio neighbors!

N4NEQ-3 !3404.03N/08427.29W#PHG5870/WIDE-RELAY in SW North Carolina 4800'

Thanks to KE4CTS KD4DKW and WD4JEM for their assistance on the installation,
and W6PNC for range testing from Atlanta.

Ralph
N4NEQ

From ddoulou@tesla.netline.net Tue Dec 05 12:20:44 1995
Received: from tesla.netline.net (root@tesla.netline.net [204.117.219.2]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id MAA19114 for <aprssig@tapr.org>; Tue, 5
Dec 1995 12:20:11 -0600 (CST)
Received: from ddoulou (tpa00.netline.net [205.160.7.80]) by tesla.netline.net
(8.6.12/8.6.9) with SMTP id NAA26639 for <aprssig@tapr.org>; Tue, 5 Dec 1995
13:20:32 -0500
Message-Id: <199512051820.NAA26639@tesla.netline.net>
Comments: Authenticated sender is <ddoulou@mail.netline.net>
From: "Demos Doulou" <ddoulou@tesla.netline.net>
To: aprssig@tapr.org
Date: Tue, 5 Dec 1995 13:21:16 +0005
Subject: Re: [APRSSIG:4900] EUROMIR + SAFEX FREQUENCY CLARIFICATION
Priority: normal
X-mailer: Pegasus Mail for Windows (v2.10)

> Date: Tue, 5 Dec 1995 09:09:15 -0600 (CST)
> Reply-to: aprssig@tapr.org
> From: kc5ejk@onramp.net (Robert Winingham)
> To: aprssig@tapr.org
> Subject: [APRSSIG:4900] EUROMIR + SAFEX FREQUENCY CLARIFICATION

> More Background information.

> -----

> >Date: 18 Sep 95 10:09:03 EDT
> >From: Norbert Notthoff <100114.1050@compuserve.com>
> >To: AMSAT-BB <AMSAT-BB@amsat.org>
> >Cc: "David Cowdin, WD0HHU" <70524.2272@compuserve.com>
> >Subject: EUROMIR + SAFEX FREQUENCY CLARIFICATION

> >

> >EUROMIR AND SAFEX FREQUENCY CLARIFICATION

> >-----

> >

> >Unfortunately there has been spread some out-of-date information
> >about the EUROMIR/SAFEX 2 m frequencies from the USA.

> >

> >We cancelled the 2 m frequencies published some weeks ago in our
> >club magazine cq-DL due to heavy complaints in Europe:

> >

> >145.850 MHz would cause interference to the uplink of important
> >satellites like KITSAT-OSCAR-23 and others. Additionally AMSAT
> >groups in Europe do for good reasons not want to have manned
> >spacecraft traffic within the 2 m satellite subband. They agree
> >to use the band edge, however.

> >
> >There are heavy complaints about the other frequencies too. HAMS in
> >Europe are VERY sensitive to these things, since there had been some
> >SAREX activity in FM and Packets modes just in the 144.400-144.500
> >MHz segment, which is reserved for CW/SSB use ONLY in IARU Region 1,
> >and which is intensively beeing used for METEORSCATTER activities in
> >Europe. Many hams are now aware of possible bandplan violations and
> >do complain immediately, when MIR or SHUTTLE activities are on
> >frequencies which do not fit the bandplan.
> >
> >So we decided to use 145.200, 145.550, and 145.800 MHz, which have
> >been chosen at the IARU Forum of this year's AMSAT-UK Colloquium.
> >
> >Please note, that the 2 metre band in Europe is 144.000-146.000 MHz
> >ONLY, and that we have very dense population and lots of VHF activity
> >in Europe. So it is nearly impossible to find a "clear" frequency in
> >the 2 metre band.
> >
> >We will definitely not change the frequencies again because there are
> >problems in one part of the world, as long as we are not shure that
> >a new chosen frequency will not cause bad interference in the other
> >parts of the world or even to the OSCAR satelllites. The situation in
> >Europe is particularly complicated and sensitive.
> >
> >73 de Norbert, DF5DP (DARC Coordintaor Satelllites And Space Projects)
>
> Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---
>
>
>
>

Why don't they use 440 instead of 2 meters. Seems to me that uhf
would be better suited for space communications than 2 meters.

73 Demos KR4US

From n8mwz@alpha.wcoil.com Tue Dec 05 12:21:05 1995
Received: from alpha.wcoil.com ([205.133.95.1]) by sys1.tapr.org (8.7.2/8.7.2)
with SMTP id MAA19132 for <aprssig@tapr.org>; Tue, 5 Dec 1995 12:20:43 -0600 (CST)
Received: from term1-3.wcoil.com (term1-3.wcoil.com [205.133.95.103]) by
alpha.wcoil.com (8.6.9/8.6.9) with SMTP id NAA16973 for <aprssig@tapr.org>; Tue, 5
Dec 1995 13:20:27 -0500
Date: Tue, 5 Dec 1995 13:20:27 -0500
Message-Id: <199512051820.NAA16973@alpha.wcoil.com>
X-Sender: n8mwz@alpha.wcoil.com
X-Mailer: Windows Eudora Version 1.4.3
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: n8mwz@alpha.wcoil.com (Bob Hartman)
Subject: Re: [APRSSIG:4898] Tapr problem

>Again all day today i have not been able to access anything on Tapr for some
>reason. No FTP nor even able to access anything to do with Tapr. Anybody
>have that same problem???

>
>Bill KE4EER

I was able to get in after two attempts at 1750 UTC. The transfer seemed
like it was
going to run a little slow, but then picked up to its usual speed and
completed.
Maybe there was extremely heavy usage today..

From LYNN4YCI@MUSIC.CC.UGA.EDU Tue Dec 05 12:59:14 1995
Received: from uga.cc.uga.edu (uga.cc.uga.edu [128.192.1.5]) by sys1.tapr.org
(8.7.2/8.7.2) with SMTP id MAA20948 for <aprssig@TAPR.ORG>; Tue, 5 Dec 1995
12:59:04 -0600 (CST)
Received: from UGA.CC.UGA.EDU by uga.cc.uga.edu (IBM VM SMTP V2R3)
with BSMTP id 0691; Tue, 05 Dec 95 12:58:08 EST
Received: from MUSIC.CC.UGA.EDU (NJE origin MUSIC@UGA) by UGA.CC.UGA.EDU (LMail
V1.2a/1.8a) with BSMTP id 2139; Tue, 5 Dec 1995 12:58:08 -0500
Message-Id: <05DEC95.14006290.0048.MUSIC@MUSIC.CC.UGA.EDU>
Date: Tue, 05 Dec 1995 12:58:07 EST
From: "HOLCOMB, GREGORY FRA" <LYNN4YCI@MUSIC.CC.UGA.EDU>
To: <aprssig@tapr.org>
Subject: 144.390????
X-Mailer: MUSIC/SP V4.1.0

I have a question about 144.390 im not saying move or dont move im just
asking for more info b4 i "cast my vote"
1. What is it used for in the US now?
2. If a move was made could we go to 9600 at a later date?
3. Would we have the power limmitions that i hear so many of you talking
about?
(digis with 5 watts dont work in the athens/atlanta area and mobiles
runing less than 10 watts dont work very well at all)
4. I know that the cost of making modifications to radios would be
expensive but what are the long range benefits and would it be beter to
move now vs. moving when we have 3 times the users and digis?
5. Is there a possible national cordinations on this (144.39)
frequency?ie having every body on the same frequency would be a much
beter situation

thanks Lynn N4YCI at Univ of Georgia.....HI KIP!

From sdimse@bridge.net Tue Dec 05 13:01:18 1995
Received: from relay7.UU.NET (relay7.UU.NET [192.48.96.17]) by sys1.tapr.org
(8.7.2/8.7.2) with ESMTP id NAA21208 for <aprssig@tapr.org>; Tue, 5 Dec 1995
13:01:13 -0600 (CST)
Received: from brickell.bridge.net by relay7.UU.NET with ESMTP
id QQzsvk05293; Tue, 5 Dec 1995 14:01:09 -0500 (EST)
Received: from [204.253.4.57] (ppp-mia1-57.bridge.net [204.253.4.57]) by
brickell.bridge.net (8.6.12/8.6.12) with SMTP id NAA25369 for <aprssig@tapr.org>;
Tue, 5 Dec 1995 13:54:14 -0500

Date: Tue, 5 Dec 1995 13:54:14 -0500
Message-Id: <199512051854.NAA25369@brickell.bridge.net>
Subject: Re: CHANGE 145.79?!
From: Steve Dimse <sdimse@bridge.net>
To: <aprssig@tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

I think everyone is very much over-reacting to the present situation.

1. 145.800 is one of three freqs listed.

2. Even if it were the only one, there would be QRM to 145.79 for a few minutes at a time, several times a day. Not a 24 hr a day problem for us by any means.

3. The QRM from APRS to MIR will be far greater, since APRS consists of automated stations which will not be able to be shut down during a pass. I doubt they will continue using this freq over the US once they hear what it sounds like up there.

My opinion, for the little it is worth, it to leave things were they are. If we move, next week someone may try to put something on 145.78!

From bruninga@nadm.navy.mil Tue Dec 05 14:47:20 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id OAA26096 for <aprssig@tapr.org>; Tue,
5 Dec 1995 14:47:15 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
PAA06625; Tue, 5 Dec 1995 15:47:30 -0500
Date: Tue, 5 Dec 1995 15:47:29 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:4897] Mapfix Bug
In-Reply-To: <199512050533.AAA20780@borg.mindspring.com>
Message-ID: <Pine.SUN.3.91.951205154429.6521B-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 5 Dec 1995, rwf wrote:

> I have located a possible bug in Mapfix. It shows up in (at least) versions
> 16 and 17.
> When cursoring up from 33 degrees thru 34 degrees, the calculation is way
> off just above 34, 0.0.

Is always been there. MAPFIX doesnt handle well the leading zero of the decimal portion of the minutes. So 39 27.015 will look lilke 39 27.15.

Sorry, but at these fine levels of detail, I guess it is going to be of concern.

BUT THE NUMBERS ARE CORRECT, only the DISPLAY is off. So in the vicinity

of an even DEGREE, just move the cursor slowly and you can figure out how many leading zeros may be missing after the decimal point... TNX...

From fehner@cts.com Tue Dec 05 15:33:51 1995
Received: from mailhub.cts.com (root@mailhub.cts.com [192.188.72.25]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id PAA28195 for <aprssig@tapir.org>; Tue, 5 Dec 1995 15:33:45 -0600 (CST)
Received: from fehnercom by mailhub.cts.com with smtp (Smail3.1.29.1 #20) id m0tN4zY-000V3mC; Tue, 5 Dec 95 13:33 PST
Message-Id: <m0tN4zY-000V3mC@mailhub.cts.com>
Date: Tue, 5 Dec 95 13:33 PST
X-Sender: fehner@mail.cts.com
X-Mailer: Windows Eudora Pro Version 2.1.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapir.org
From: Barbara Fehner <fehner@cts.com>
Subject: Re: [APRSSIG:4897] Mapfix Bug

I have also noticed this bug. It doesn't seem to affect Mapfix but it does make it hard to locate a point to enter into Mkmap. I have also noticed that Mapfix eats points when a map is loaded into it. This causes the staircase problem.

Barbara KK6IB
E-Mail: fehner@cts.com

At 09:03 AM 12/5/95 -0600, you wrote:

>Bob-

>

>I have located a possible bug in Mapfix. It shows up in (at least) versions >16 and 17.

>

>I was using the program to make 1 mile Atlanta area maps when I noticed that >the lat/long display box was behaving strangely.

>The problem involves the data on the left side of the box (the side with the >degrees, minutes.tenths of minutes)

>

>When cursoring up from 33 degrees thru 34 degrees, the calculation is way >off just above 34, 0.0.

>Just after passing 34 degrees, the display reading varies between 0 and 9 >minutes, then goes back to less than 1 minute, then begins incrementing >normally.

>

>I tried several other similar places where degrees clicked over and this was >the only place I noticed it.

>

>To test this, place your cursor just below 34 degrees, zoom all the way in >and move the cursor up. You'll see the problem.

>

>

>Ralph

>
>
>
>

From tweedy@pc.gcs.litton.com Tue Dec 05 15:40:56 1995
Received: from lcsdns1.litton.com (lcsdns1.litton.com [139.61.7.2]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id PAA28341 for <aprssig@tapr.org>; Tue, 5
Dec 1995 15:40:53 -0600 (CST)
Received: from lcsipdp (lcsipdp.litton.com) by lcsdns1.litton.com (4.1/SMI-4.1)
id AA22928; Tue, 5 Dec 95 13:38:11 PST
Received: from pc.gcs.litton.com by lcsipdp (4.1/SMI-4.1)
id AA07665; Tue, 5 Dec 95 13:54:02 PST
Received: from Connect2 Message Router by pc.gcs.litton.com
via Connect2-SMTP 4.00; Tue, 5 Dec 95 13:41:16 -0800
Message-Id: <3E81C43001B4ABAA@pc.gcs.litton.com>
Date: Tue, 5 Dec 95 13:38:32 -0800
From: "TWEEDY, MIKE WH:2453" <tweedy@pc.gcs.litton.com>
Sender: "TWEEDY, MIKE WH:2453" <tweedy@pc.gcs.litton.com>
Organization: Litton GC/S
To: aprssig@tapr.org
Subject: Re: Tiny-2 help need
X-Mailer: Connect2-SMTP 4.00 MHS to SMTP Gateway

Bruce-

I have been using a Procomm Tiny-2 for a year now and I can offer these pointers:

When setting up the TNC for APRS transmit using a GPS receiver w/
NMEA-0183 outputs, you need to at least set up 5 commands. MYCALL should
have your callsign (w/ optional SSID if desired). GPSTEXT should contain
the NMEA data sentence such as \$GPRMC or whatever. LPATH can be left
with GPS (default) or some other destination callsign. LOCATION EVERY N
should set your periodic transmission rate every N*10 seconds. Lastly,
GPS should be set ON, in order to activate the TNC as an APRS tracker.
It should be noted that these commands should be sent to the Tiny-2 in
UPPER CASE only-- it will ignore lower case inputs.

If you suspect your problem is communicating with the GPS receiver,
verify what baud rate the GPS unit is sending at. The NMEA standard is
4800 baud, but newer units may transmit at 9600 baud. You can change the
jumpers inside the Tiny-2 to accomodate the correct baud rate if
necessary. Also, be aware that both the TNC and GPS receiver are
considered as DCE devices. While you may be able to read the output of
the GPS unit on a DTE device (i.e. computer or terminal), you may need to
use a null modem adapter to connect a DCE device to a DCE device. What I
do is install a mini DPDT slide switch inside a DB-9 connector shell of
my connector cable to switch the RD and TD lines as required.

If you suspect your problem to be on the receiving end using the Tiny-2
as a standard TNC, I have found the TNC front end very sensitive to
overloading or underloading from the transceiver. While the TNC's DCE
light will come on for each packet burst, there may be no data being
transmitted on the RD line going to your computer. I find that
installing an in-line RS-232 mini-tester will aid in setting up the
receiver volume level to an optimum point. I hope these pointers

help.....

73's de Mike KA6SPT

From rwf@mindspring.com Tue Dec 05 15:41:20 1995
Received: from borg.mindspring.com (root@borg.mindspring.com [204.180.128.14]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id PAA28376 for <aprssig@tapr.org>; Tue, 5
Dec 1995 15:41:17 -0600 (CST)
Received: from rwf.mindspring.com [168.121.44.154] by borg.mindspring.com
with SMTP id QAA08742 for <aprssig@tapr.org>; Tue, 5 Dec 1995 16:41:09 -0500
Date: Tue, 5 Dec 1995 16:41:09 -0500
Message-Id: <199512052141.QAA08742@borg.mindspring.com>
X-Sender: rwf@mindspring.com
X-Mailer: Windows Eudora Version 2.1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: rwf <rwf@mindspring.com>
Subject: Re: Face Red re: New *HIGH* APRS DIGI for NC /TN / GA

At 01:00 PM 12/5/95 -0600, I wrote:

>
>

>Thanks to KE4CTS KD4DKW and WD4JEM for their assistance on the installation,
>and W6PNC for range testing from Atlanta.

And I forgot to thank ol' Bill Nolle, KE4EER for the loan of his 145.79 GE
crystals for the digi. I needed
some in a hurry and he came thru in the clutch with a set.

Ralph

From kheyboer@pinegov.co.pinellas.fl.us Tue Dec 05 17:48:21 1995
Received: from pinegov (pinegov.co.pinellas.fl.us [136.174.202.1]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id RAA03816 for <aprssig@tapr.org>; Tue, 5
Dec 1995 17:48:16 -0600 (CST)
Received: by pinegov (5.0/SMI-SVR4)
id AA00476; Tue, 5 Dec 1995 23:32:47 +0000
Errors-To: root@pinegov.co.pinellas.fl.us
Date: Tue, 5 Dec 1995 23:32:45 +0000 (EST)
From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:4921] Re: CHANGE 145.79?!
In-Reply-To: <199512051854.NAA25369@brickell.bridge.net>
Message-Id: <Pine.SUN.3.91.951205232955.387A-100000@pinegov>
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 5 Dec 1995, Steve Dimse wrote:

> I think everyone is very much over-reacting to the present situation.
>
> 1. 145.800 is one of three freqs listed.
>
> 2. Even if it were the only one, there would be QRM to 145.79 for a few
> minutes at a time, several times a day. Not a 24 hr a day problem for us
> by any means.
>
> 3. The QRM from APRS to MIR will be far greater, since APRS consists of
> automated stations which will not be able to be shut down during a pass.
> I doubt they will continue using this freq over the US once they hear
> what it sounds like up there.
>
> My opinion, for the little it is worth, it to leave things were they are.
> If we move, next week someone may try to put something on 145.78!
>
>

I absolutely, positively, agree on this one.....SAREX goes up for a few
days every few months...and passes overhead 3 or 4 times a day for no
more than 10 minutes....and we are talking the downlink freq not the
uplink freq...the SAREX astronauts won't hear it at all....

P.S. What was wrong with 145.55 anyway....only a problem during joint
missions....

Just my two cents worth

de Kevin KD4UYR

From dwetzel@acs.uswest.com Tue Dec 05 17:53:21 1995
Received: from uswat.advtech.uswest.com (uswat.advtech.uswest.com [130.13.16.1])
by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id RAA04281 for <aprssig@tapr.org>; Tue,
5 Dec 1995 17:53:19 -0600 (CST)
From: dwetzel@acs.uswest.com
Received: from easthub ([151.117.26.86]) by uswat.advtech.uswest.com (8.7.1/8.7.1)
with SMTP id QAA25174 for <aprssig@tapr.org>; Tue, 5 Dec 1995 16:53:15 -0700 (MST)
Received: by easthub.mnet.uswest.com (M-Net Hub.950111)
Received: from acmspgw1.mnet.uswest.com by acs.uswest.com (5.x/SMI-SVR4)
id AA01217; Tue, 5 Dec 1995 17:53:13 -0600
Received: from ccMail by acmspgw1.mnet.uswest.com
(IMA Internet Exchange 1.04b beta) id 0c4d16a0; Tue, 5 Dec 95 17:10:34 -0600
Mime-Version: 1.0
Date: Tue, 5 Dec 1995 11:44:40 -0600
Message-Id: <0c4d16a0@acmspgw1.mnet.uswest.com>
Subject: Re: [APRSSIG:4906] Baycom tnc in a connector
To: aprssig@tapr.org
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Description: cc:Mail note part

No, the Baycom is only a modem - no packet driver or API to
Bob/Keith's work.

Doug
KC7CO
dwetzel@acs.uswest.com

----- Reply Separator -----

Subject: [APRSSIG:4906] Baycom tnc in a connector
Author: aprssig@tapr.org at Internet-Mail
Date: 12/5/95 9:35 AM

Does anyone know if it is possible to use a Baycom TNC in a connector with APRS? I think this question was posed a while ago, but I can't seem to find an answer. Even if it could be made to work RX only would be ok.

Paul, WD9ABE

From kheyboer@pinegov.co.pinellas.fl.us Tue Dec 05 17:53:48 1995
Received: from pinegov ([136.174.200.14]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id RAA04299 for <aprssig@tapr.org>; Tue, 5 Dec 1995 17:53:42 -0600 (CST)
Received: by pinegov (5.0/SMI-SVR4)
id AA00545; Tue, 5 Dec 1995 23:45:38 +0000
Errors-To: root@pinegov.co.pinellas.fl.us
Date: Tue, 5 Dec 1995 23:45:37 +0000 (EST)
From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:4920] 144.390????
In-Reply-To: <05DEC95.14006290.0048.MUSIC@MUSIC.CC.UGA.EDU>
Message-Id: <Pine.SUN.3.91.951205234353.387B-100000@pinegov>
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 5 Dec 1995, HOLCOMB, GREGORY FRA wrote:

> I have a question about 144.390 im not saying move or dont move im just
> asking for more info b4 i "cast my vote"
> 1. What is it used for in the US now?
> 2. If a move was made could we go to 9600 at a later date?
> 3. Would we have the power limmitions that i hear so many of you talking
> about?
> (digis with 5 watts dont work in the athens/atlanta area and mobiles
> runing less than 10 watts dont work very well at all)
> 4. I know that the cost of making modifications to radios would be
> expensive but what are the long range benefits and would it be beter to
> move now vs. moving when we have 3 times the users and digis?
> 5. Is there a possible national cordinations on this (144.39)
> frequency?ie having every body on the same frequency would be a much
> beter situation
>
> thanks Lynn N4YCI at Univ of Georgia.....HI KIP!

>

>

According to the ARRL Operating Manual...the ARRL bandplan places 144.390 smack in the middle of the Oscar subband in the US...in Region 1 it would be 10 KHz away from the SSB meteor scatter freq....so there is the answer...why as why?

de KD4UYR

From z002594b@bcfreenet.seflin.lib.fl.us Tue Dec 05 18:13:02 1995
Received: from bcfreenet.seflin.lib.fl.us (bcfreenet.seflin.lib.fl.us [198.78.48.20]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id SAA05063 for <aprssig@tapir.org>; Tue, 5 Dec 1995 18:12:49 -0600 (CST)
Received: (from z002594b@localhost) by bcfreenet.seflin.lib.fl.us (8.6.12/8.6.12) id TAA23615; Tue, 5 Dec 1995 19:10:50 -0500
Date: Tue, 5 Dec 1995 19:10:50 -0500 (EST)
From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Subject: Re: [APRSSIG:4905] Re: CHANGE 145.79?!
To: aprssig@tapir.org
cc: aprssig@tapir.org
In-Reply-To: <199512051416.IAA02401@solar.cs.tamu.edu>
Message-ID: <Pine.3.89.9512051938.A14830-01000000@bcfreenet.seflin.lib.fl.us>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Pragmatically lady(ies) and gentlemen, if the AMSAT people find problems with operating on 145.80, then THEY will fix it. Bob's suggestion is golden.

My recommendation is to sit tight and wait and see. Don't change.

William Manley
z002594b@bcfreenet.seflin.lib.fl.us

From bruninga@nadn.navy.mil Tue Dec 05 20:13:35 1995
Received: from greatlakes.nadn.navy.mil (greatlakes.nadn.navy.mil [131.121.9.4]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id UAA08598 for <aprssig@tapir.org>; Tue, 5 Dec 1995 20:13:32 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadn.navy.mil (8.6.12/8.6.12) id VAA09107; Tue, 5 Dec 1995 21:13:56 -0500
Date: Tue, 5 Dec 1995 21:13:55 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:4923] Re: Mapfix Bug
In-Reply-To: <m0tN4zY-000V3mC@mailhub.cts.com>
Message-ID: <Pine.SUN.3.91.951205210622.9042C-1000000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 5 Dec 1995, Barbara Fehner wrote:

> I have also noticed this bug. It doesn't seem to affect Mapfix but it does
> make it hard to locate a point to enter into Mkmap. I have also noticed that
> Mapfix eats points when a map is loaded into it. This causes the stairstep
> problem.

APR REPLY: There is no mechanism for APRS to eat points EXCEPT for the
alt-SCRUNCH command. If you see a grainy resolution, then you have selected
a VERY wrong map scale (PPD) value. I'm not sure how the PPD is selected in
MKMAPHK, but when you view ANY map with MAPFIX, the OPTIMUM map scale is
shown as a yellow BOX. All or most of your points should be inside this box.

If you have a very BIG yellow box, and a tiny map, then the PPD value is
way too big and you have lost resolution. If the yellow box is too small,
and most of your map is outside of the yellow box, then you have TOO MUCH
resolution for that size map, and your MAP numbers will be TOO big. This
will lead to APRS crashes when you ZOOM in too far.

The yellow box marks the 0,0 origin in the upper left corner, and the
size of the box represents map values between 0 and 1024 vertically and
between 0 and 2048 (somewhat less actually) in the X axis. If your values
remain in that range, then 1) your map will NOT crash in APRS and you can
use the MAPFIX COMPRESS function to reduce the size of your map files.

I see a lot of manually made maps with GROSSLY wrong PPD selections. In
MKMAPHK and MAKEMAP1, I think the program selects it for you...

From gerry@cs.tamu.edu Tue Dec 05 20:33:52 1995

Received: from cs.tamu.edu (clavin.cs.tamu.edu [128.194.130.106]) by sys1.tapr.org
(8.7.2/8.7.2) with SMTP id UAA09572 for <aprssig@tapr.org>; Tue, 5 Dec 1995
20:33:49 -0600 (CST)

Received: from solar.cs.tamu.edu (2961@solar.cs.tamu.edu [128.194.132.1]) by
cs.tamu.edu (8.6.10/8.6.4) with ESMTP id UAA25075 for <aprssig@tapr.org>; Tue, 5
Dec 1995 20:33:13 -0600

From: Gerald J Creager <gerry@cs.tamu.edu>

Received: (gerry@localhost) by solar.cs.tamu.edu (8.6.10/8.6.4) id UAA15513 for
aprssig@tapr.org; Tue, 5 Dec 1995 20:33:06 -0600

Message-Id: <199512060233.UAA15513@solar.cs.tamu.edu>

Subject: Re: [APRSSIG:4926] Re: CHANGE 145.79?!

To: aprssig@tapr.org

Date: Tue, 5 Dec 1995 20:33:06 -0600 (CST)

In-Reply-To: <Pine.SUN.3.91.951205232955.387A-100000@pinegov> from "Kevin Heyboer"
at Dec 5, 95 06:03:19 pm

X-Mailer: ELM [version 2.4 PL24]

Content-Type: text

Kevin Heyboer sez:

>

> P.S. What was wrong with 145.55 anyway....only a problem during joint
> missions....

Well, last I checked, First Element Launch for Space Station (R)Alpha is due
NEXT year, and Permanent Manned Capability in 18 months. So, they'll have 2
space stations up then. Therein, some of the basis for the prior planning.

```
Gerry Creager  N5JXS      *  SAREX Co-Investigator
gerry@cs.tamu.edu        *    A little radio that lets kids talk
                          *    to astronauts, and smile
```

From rwf@mindspring.com Tue Dec 05 20:51:20 1995
Received: from borg.mindspring.com (root@borg.mindspring.com [204.180.128.14]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id UAA10077 for <aprssig@tapr.org>; Tue, 5
Dec 1995 20:51:17 -0600 (CST)
Received: from rwf.mindspring.com [168.121.44.154] by borg.mindspring.com
with SMTP id VAA21972 for <aprssig@tapr.org>; Tue, 5 Dec 1995 21:51:10 -0500
Date: Tue, 5 Dec 1995 21:51:10 -0500
Message-Id: <199512060251.VAA21972@borg.mindspring.com>
X-Sender: rwf@mindspring.com
X-Mailer: Windows Eudora Version 2.1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: rwf <rwf@mindspring.com>
Subject: Face Red AGAIN re: New *HIGH* APRS DIGI for NC /TN / GA

Dan Reilly advised me that my coordinates were wrong for our new digi. I accidentally gave the info for the N4NEQ-2 digi here in Atlanta. The correct info for the one in NC is:

Ralph

For you APRS mapmakers, I've uploaded a corrected version of MKMAPKKE to [tapr/SIG/aprssid/uploads](#) as MKMAPKKE.ZIP. Hopefully this corrects the bug where the + & - did not work correctly. I cranked out a couple of maps with MKMAPKKE and MKMAPHK1 and they now appear to work about the same as far as picking up the correct roads. Read MKMAPKKE.TXT when you unzip the package

for details.

I've got Barbara's (KK6IB) and Ralph's requests for tweaks in the "to do" list after all of you find the next set of bugs! Also, I'm trying to figure out how to shed some of the contour lines or points and still keep a reasonable representation of the elevation data.

73, Ken, W7KKE
kswaggart@aol.com

From KSwaggart@aol.com Tue Dec 05 21:33:26 1995
Received: from mail06.mail.aol.com (mail06.mail.aol.com [152.163.172.108]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id VAA11345 for <aprssig@tapr.org>; Tue, 5 Dec 1995 21:33:15 -0600 (CST)
From: KSwaggart@aol.com
Received: by mail06.mail.aol.com (8.6.12/8.6.12) id WAA05142 for aprssig@tapr.org; Tue, 5 Dec 1995 22:32:41 -0500
Date: Tue, 5 Dec 1995 22:32:41 -0500
Message-ID: <951205223231_45857178@mail06.mail.aol.com>
To: aprssig@tapr.org
Subject: Any demand for rail history APRS maps?

Are there any railroad history buffs out there? While trying to chase down the last set of bugs in MKMAPKKE I noticed there are several map feature categories under "railroads" that might be interesting; "abandoned", "dismantled", and under the road category, "old railroad grade".

If there is any interest, I could add these to the menu for MKMAPKKE. In Oregon, the hunters often use the old railroad grades for hiking access into the mountains. Not necessarily an APRS application, but this historical map data might be of interest for specialized applications.

73, Ken, W7KKE
kswaggart@aol.com

From mtanner@telerama.lm.com Tue Dec 05 21:34:09 1995
Received: from ivory.lm.com (ivory.lm.com [192.231.221.9]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id VAA11574 for <aprssig@tapr.org>; Tue, 5 Dec 1995 21:34:06 -0600 (CST)
Received: from mtanner.slip.lm.com (mtanner.slip.lm.com [204.171.34.198]) by ivory.lm.com (8.6.12/8.6.12) with SMTP id WAA21753 for <aprssig@tapr.org>; Tue, 5 Dec 1995 22:40:04 -0500
Message-Id: <199512060340.WAA21753@ivory.lm.com>
X-Sender: mtanner@mail.lm.com
X-Mailer: Windows Eudora Version 1.4.3
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Tue, 05 Dec 1995 22:32:59 -0500
To: aprssig@tapr.org
From: mtanner@telerama.lm.com (Mike Tanner)
Subject: APRS TNC needed

A couple of us want to put up a digi in Pittsburgh. We have most of the stuff we need, except a TNC that will work for APRS. If you have a used KPC-3 or PacCom tnc you want to sell cheap (cost effectively) please contact me. Also, just wondering how much activity there is in the burgh.

Please contact direct so as not to use up bandwidth.

Thanks 73's

Mike

wb5nlj@amsat.org

mtanner@telerama.lm.com

From martinbw@TEN-NASH.TEN.K12.TN.US Tue Dec 05 22:07:27 1995

Received: from ten-nash.ten.k12.tn.us (ten-nash.ten.k12.tn.us [198.146.3.220]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id WAA12652 for <aprssig@tapir.org>; Tue, 5 Dec 1995 22:07:20 -0600 (CST)

Received: from oscar.tbr.state.tn.us (198.146.3.69) by TEN-NASH.TEN.K12.TN.US (PMDF V4.3-10 #11463) id <01HYGPLIBYA8I3VXM3@TEN-NASH.TEN.K12.TN.US>; Tue, 05 Dec 1995 22:07:14 -0600 (CST)

Date: Tue, 05 Dec 1995 22:07:14 -0600

From: "Bruce W. Martin" <martinbw@TEN-NASH.TEN.K12.TN.US>

Subject: New *HIGH* APRS DIGI for NC /TN / GA

To: aprssig@tapir.org

Message-id: <9512052207.AA14789@oscar.tbr.state.tn.us>

MIME-version: 1.0

X-Mailer: InterCon TCP/Connect II 2.3

Content-type: Multipart/Mixed;boundary=part_ACEA7312002DCDA6000000005

Content-transfer-encoding: 7BIT

--part_ACEA7312002DCDA6000000005

Content-Type: Text/Plain; charset=US-ASCII

Content-Disposition: Inline

Ralph, N4NEQ wrote,

> For those of you keeping track, or planning travel to the area, we
> have placed a new APRS digipeater on a 4800 ft hill in extreme SW
> North Carolina.

>

>

> The digi is loccated at Andrews NC and has already shown that it
> can connect directly to Columbus, GA, Birmingham, AL, Atlanta,
> GA, Huntsville, AL and all of the other Digis in TN except for
> Nashville.

I hope to have this problem rectified this weekend. New Nashville digi going up just east of Nashville.

73 de KQ4TV

--part_ACEA7312002DCDA6000000005

Content-Transfer-Encoding: Quoted-Printable
Content-Type: Text/Plain; charset=ISO-8859-1
Content-Disposition: Inline

--

```
*****
* Bruce W. Martin           Internet: martinbw@ten-nash.tn.us *
* 4558 Brooke Valley Dr.    HAM Call: KQ4TV                  *
* Hermitage TN 37076-2650   ICBM/ALCM                      *
* Voice: (615) 872-9942     Address:36=B010'30"N/86=B035'30"W   *
* FAX/MODEM: (615) 885-4182 APRS:3610.50N/08635.50W          *
* URL: http://www.tbr.state.tn.us/~martinbw/home.html        *
* I have a 486DX33 to play games and run some HAM programs,  *
* when I want to do serious work I use a Macintosh.          *
*****
```

--part_ACEA7312002DCDA600000005--

From rwf@mindspring.com Tue Dec 05 22:38:10 1995
Received: from borg.mindspring.com (root@borg.mindspring.com [204.180.128.14]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id WAA13485 for <aprssig@tapr.org>; Tue, 5
Dec 1995 22:38:06 -0600 (CST)
Received: from rwf.mindspring.com [168.121.44.154] by borg.mindspring.com
with SMTP id XAA17441 for <aprssig@tapr.org>; Tue, 5 Dec 1995 23:37:58 -0500
Date: Tue, 5 Dec 1995 23:37:58 -0500
Message-Id: <199512060437.XAA17441@borg.mindspring.com>
X-Sender: rwf@mindspring.com
X-Mailer: Windows Eudora Version 2.1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: rwf <rwf@mindspring.com>
Subject: Re: [APRSSIG:4934] Any demand for rail history APRS maps?

I AM! I AM!

At 09:36 PM 12/5/95 -0600, you wrote:

>Are there any railroad history buffs out there? While trying to chase down
>the last set of bugs in MKMAPKKE I noticed there are several map feature
>catagories under "railroads" that might be interesting; "abandoned",
>"dismantled", and under the road catagory, "old railroad grade".
>

>If there is any interest, I could add these to the menu for MKMAPKKE. In
>Oregon, the hunters often use the old railroad grades for hiking access into
>the mountains. Not necessarily an APRS application, but this historical map
>data might be of interest for specialized applications.
>

>73, Ken, W7KKE
>kswaggart@aol.com

>
>

From a010717t@bcfreenet.seflin.lib.fl.us Wed Dec 06 00:23:24 1995
Received: from bcfreenet.seflin.lib.fl.us (bcfreenet.seflin.lib.fl.us
[198.78.48.20]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id AAA21783 for
<aprssig@tapr.org>; Wed, 6 Dec 1995 00:23:14 -0600 (CST)
Received: (from a010717t@localhost) by bcfreenet.seflin.lib.fl.us (8.6.12/8.6.12)
id UAA12848; Tue, 5 Dec 1995 20:03:30 -0500
Date: Tue, 5 Dec 1995 20:03:29 -0500 (EST)
From: Terry Taylor <a010717t@bcfreenet.seflin.lib.fl.us>
Subject: Re: [APRSSIG:4814] Re: GPS simultaneous parallel tracking
To: aprssig@tapr.org
In-Reply-To: <Pine.3.89.9512011536.A1331-01000000@bcfreenet.seflin.lib.fl.us>
Message-ID: <Pine.3.89.9512051933.A2477-01000000@bcfreenet.seflin.lib.fl.us>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

As one who flies the larger birds, here's my 2 pennies on the
discussion about GPS instrument approaches.

To my knowledge, the GPS aviation instrument approach is still
published as just a non-precision approach. That means there is only
lateral navigational capability, with no vertical capability at all.
The pilot makes descents to published lower altitudes (to clear obstacles)
as the aircraft approaches the airport. The system would need to be
accurate enough to meet the TERPS (standard for defining clearance from
known obstacles) criteria for a non-precision approach, of which the VOR,
NDB, BC Localizer, TACAN, all meet these requirements.

There are GPS systems now being sold for use in private aircraft.
The GPS instrument approach is a reality, as evidenced by renaming a VOR
approach to GPS and VOR. Reference: VOR and GPS Rwy 22, Bradley Int'l
Airport, Windsor Locks, CT. More and more, with the latest Jeppesen
revisions to airports everywhere, GPS is being included as a navigational
aid for making a non-precision approach to an airport.

The technology is there, and accurate enough for this type of
instrument approach to an airport. The weather minimums are high enough,
with adequate clearance from surrounding objects for quite a distance,
that lateral error from the system could be tolerated to some degree,
probably, as much from any other non-precision approach nav-aid.

To my knowledge, no commercial airline is using GPS for point to
point navigation, nor instrument approaches. This is probably more due to
cost, than technical capability. Someday, I expect the GPS will replace
the VOR and TACAN navigation system.

Terry Taylor, WB5JFM
a010717t@bcfreenet.seflin.lib.fl.us

From scottm@sierra.net Wed Dec 06 01:19:31 1995

Received: from diamond.sierra.net (root@diamond.sierra.net [204.94.39.235]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id BAA23494 for <aprssig@tapir.org>; Wed, 6 Dec 1995 01:19:29 -0600 (CST)

Received: from brockway-d224.sierra.net by diamond.sierra.net with SMTP id AA01713 (5.67b8/IDA-1.5 for <aprssig@tapir.org>); Tue, 5 Dec 1995 23:19:23 -0800

Message-Id: <199512060719.AA01713@diamond.sierra.net>

X-Sender: scottm@diamond.sierra.net

X-Mailer: Windows Eudora Light Version 1.5.2

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Date: Tue, 05 Dec 1995 23:18:16 -0800

To: aprssig@tapir.org

From: Scott Miller <scottm@sierra.net>

Subject: HELP with pico w/2nd serial port and internal GPS

Cc: aprssig@tapir.org

Hi everybody, I'm new to aprs and newer to internet. My problem is when I go mobile I don't see myself on the map. I see everybody else, and they see me, and I see myself being digi'd. I would be very grateful for any suggestions thank you all 73 Scott

From ve4mjm@draco.bison.mb.ca Wed Dec 06 01:26:29 1995

Received: from electra.cc.umanitoba.ca (root@electra.cc.umanitoba.ca [130.179.16.23]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id BAA23581 for <aprssig@tapir.org>; Wed, 6 Dec 1995 01:26:27 -0600 (CST)

Received: from mira.cc.umanitoba.ca

(uucp@mira.cc.umanitoba.ca [130.179.16.8]) by

electra.cc.umanitoba.ca (8.7.1/8.7.1) with SMTP id BAA10751

for <aprssig@tapir.org>; Wed, 6 Dec 1995 01:26:27 -0600 (CST)

Received: by mira.cc.umanitoba.ca (5.x/SMI-SVR4)

id AA21448; Wed, 6 Dec 1995 01:26:17 -0600

>Received: by bison.mb.ca (Smail3.1.28.1 #14)

id m0tN5Gp-0005mvC; Tue, 5 Dec 95 21:51 GMT

Received: from bison by mira.cc.umanitoba.ca; Wed, 6 Dec 1995 01:26 CST

Received: by bison.mb.ca (Smail3.1.28.1 #14)

id m0tN5Gp-0005mvC; Tue, 5 Dec 95 21:51 GMT

Received: by draco.bison.mb.ca id AA31170

(5.67b/IDA-1.5 for aprssig@tapir.org); Tue, 5 Dec 1995 20:40:15 -0600

Date: Tue, 5 Dec 1995 20:40:12 -0600 (CST)

From: Michael Markmann <ve4mjm@draco.bison.mb.ca>

To: aprssig@tapir.org

Subject: Re: [APRSSIG:4897] Mapfix Bug

In-Reply-To: <199512050533.AAA20780@borg.mindspring.com>

Message-Id: <Pine.LNX.3.91.951205203455.30658D-100000@draco.bison.mb.ca>

Mime-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 5 Dec 1995, rwf wrote:

> Bob-

>

> I have located a possible bug in Mapfix. It shows up in (at least) versions
> 16 and 17.
>
> When cursoring up from 33 degrees thru 34 degrees, the calculation is way
> off just above 34, 0.0.
> Just after passing 34 degrees, the display reading varies between 0 and 9
> minutes, then goes back to less than 1 minute, then begins incrementing
> normally.
>
This small problem is due to the whay Bob displays the minutes and seconds
in the box. I have made some small code modifications that probably would
fix this. For Bob's info, this involves the PRINT USING statement in the
code.

I'm trying to get my hands on Quick Basic so that I can create a
compiled version of Mapfix. Right now, using ver1.1 of QB, I have to
remove the USGS and Digitizer code so that I don't run out of memory!

Michael

--

Michael Markmann VE4MJM		
ve4mjm@draco.bison.mb.ca (Internet)		ERROR! REALITY.SYS Corrupted!
VE4MJM@VE4KV.#WPG.MB.CAN.NA (AX.25)		Reboot UNIVERSE.EXE!
Hobbies: Electronics, Amateur Radio, Computers, Model Trains, ...		

From jswift@conch.aa.msen.com Wed Dec 06 02:09:31 1995
Received: from conch.aa.msen.com (jswift@conch.aa.msen.com [148.59.6.20]) by
sys1.tapir.org (8.7.2/8.7.2) with SMTP id CAA24621 for <aprssig@tapir.org>; Wed, 6
Dec 1995 02:09:28 -0600 (CST)
Received: (from jswift@localhost) by conch.aa.msen.com (8.6.12/8.6.12) id
DAA26508; Wed, 6 Dec 1995 03:09:25 -0500
Date: Wed, 6 Dec 1995 03:09:25 -0500 (EST)
From: Jack Swift <jswift@conch.aa.msen.com>
X-Sender: jswift@conch.aa.msen.com
To: aprssig@tapir.org
Subject: Re: [APRSSIG:4934] Any demand for rail history APRS maps?
In-Reply-To: <951205223231_45857178@mail06.mail.aol.com>
Message-ID: <Pine.BSD/.3.91.951206030710.24760B-100000@conch.aa.msen.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

for those of us involved in search and rescue, the non-active railroads
become valid landmarks when tromping through the woods. in our neck of
the woods, most of the snowmobile trails use old rr grades (especially
through swamps...)

On Tue, 5 Dec 1995 KSwaggart@aol.com wrote:

> Are there any railroad history buffs out there? While trying to chase down
> the last set of bugs in MKMAPKKE I noticed there are several map feature
> catagories under "railroads" that might be interesting; "abandoned",

X-Sender: fredq@mail.bihs.net
X-Mailer: Windows Eudora Light Version 1.5.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: Fred Quarles <fredq@bihs.net>
Subject: Re: [APRSSIG:4901] 145.79 again.

At 09:32 AM 12/5/95 -0600, you wrote:

>Well, apparently my idea to solve the future problem with SAREX and
>Space station on 145.80 by moving APRS down 5 Khz has met with
>overwhelming opposition by everyone. Most vociferously the folks on
>145.77 who dont want to have a 15 KHz neighbor on 145.785...

>

>No one, especially the most contemptuous responses offered any
>other solution other than "IM NOT MOVING"...

>

>Oh well, seemed like a workable compromise to me...

>

>In view of the explosive growth of 145.79 networks, it will be impossible
>to fix this problem later. Maybe the possibility of moving the SPACE
>STATION up to 145.805 should be re-addressed...

>

>

>

Well Bob here is a new thought...with the space vehicles passing for such short periods of time, with only a few effective passes over a given area in a 24hr period and given the short transmit cycle of most APRS stations why not include in your regular APRS a feature you included in the APRTrak program. That is, have everyone upload the current KEPS and have APRS track the space vehicles. When ever the target 145.80 station's effective area enters the area of the tracking APRS, have APRS inhibit all transmits and digi's during that short pass. Make the inhibit process include an ID and comment that this APRS station will cease transmit operation during the current satellite pass, maybe even change the stations symbol to a skull and crossbones during the pass and have any receiving APRS station not tracking the satellite inhibit for a set period of time if they decode the sysbol. Once the pass is clear your station's effective area, APRS turns back on the transmit function and all is normal untill the next pass that covers your area. I realize this will affect only those stations actually running the APRS software, but at least in my area that includes 99% of all APRS stations. I have an unattended wx node/digi, but with no one else xmit'n it will only xmit every 6 min or so and I can lengthen that. With a little creative thinking I bet some of the APRS/Packet experts can come up with a plan that would allow one APRS' inhibit (proposed) function to inhibit a networks worth of digi if they fall into the effective area of the Satellite pass. I don't think that coexistence is out of the picture if we apply a little technology and creative thinking, at least they didn't pick 145.79 as their freq. I remember when I was trying to contact the Shuttle via phone and was running APRS full time at the same station the two seldom conflicted timing wise. 73...Keep up the good work...FredQ.

From ddoulou@tesla.netline.net Wed Dec 06 07:27:39 1995

Received: from tesla.netline.net (root@tesla.netline.net [204.117.219.2]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id HAA02872 for <aprssig@tapr.org>; Wed, 6 Dec 1995 07:27:37 -0600 (CST)

Received: from ddoulou (tpa01.netline.net [205.160.7.81]) by tesla.netline.net (8.6.12/8.6.9) with SMTP id IAA27288 for <aprssig@tapr.org>; Wed, 6 Dec 1995 08:28:19 -0500

Message-Id: <199512061328.IAA27288@tesla.netline.net>

Comments: Authenticated sender is <ddoulou@mail.netline.net>

From: "Demos Doulou" <ddoulou@tesla.netline.net>

To: aprssig@tapr.org

Date: Wed, 6 Dec 1995 08:28:48 +0005

Subject: Re: [APRSSIG:4942] Re: EUROMIR + SAFEX FREQUENCY CLARIFICATION

Priority: normal

X-mailer: Pegasus Mail for Windows (v2.10)

>d From: n8mwz@alpha.wcoil.com (Bob Hartman)
> To: aprssig@tapr.org
> Subject: [APRSSIG:4942] Re: EUROMIR + SAFEX FREQUENCY CLARIFICATION

> >Why don't they use 440 instead of 2 meters. Seems to me that uhf
> >would be better suited for space communications than 2 meters.
> >
> >73 Demos KR4US
>
> Why don't *WE* do more on 440 instead of expecting everybody else to move???
>
>
>
>

Good point, and we all need to be thinking of putting new services on UHF and above. It is kind of dumb to be trying to put more and more digital modes on 2 meters where there is very little room left for anything.

We have run out of good repeater pairs here in Pinellas, and repeaters are showing up where they should not be, like there is a repeater on 145.820 here in Florida, which should make the satellite people very unhappy.

But 2 meters is not effected by the environment as much as UHF and above making it better for mobile ground communications, or for tracking mobiles, where UHF and the microwave bands seem to be better for space comms.

But if necessary I will move as long as the new frequency does not interfere with any other users and it is more than 15 khz from any other users.

73 Demos KR4US

See Ya

Demos

From bruninga@nadm.navy.mil Wed Dec 06 08:05:13 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id IAA04165 for <aprssig@tapir.org>; Wed,
6 Dec 1995 08:05:11 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
JAA03158; Wed, 6 Dec 1995 09:05:35 -0500
Date: Wed, 6 Dec 1995 09:05:34 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:4939] HELP with pico w/2nd serial port and internal GPS
In-Reply-To: <199512060719.AA01713@diamond.sierra.net>
Message-ID: <Pine.SUN.3.91.951206090259.2895A-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 6 Dec 1995, Scott Miller wrote:

> Hi everybody, I'm new to aprs and newer to internet. My problem is when I go
> mobile I don't see myself on the map. I see everybody else, and they see
> me, and I see myself being digi'd. I would be very grateful for any suggestions

SUGGESTION: Wait. hi hi. PacComm and I are working on it. I didn't
even know they were shipping the PICO with the dual port yet...
A new version of APRS (74d) will recognize the PICO and instead of
toggling the HSP switch, it will INTERROGATE the GPS for its posit data....

From wd5ivd@tapir.org Wed Dec 06 08:33:49 1995
Received: (from wd5ivd@localhost) by sys1.tapir.org (8.7.2/8.7.2) id IAA05037 for
aprssig@tapir.org; Wed, 6 Dec 1995 08:33:49 -0600 (CST)
From: Greg Jones <wd5ivd@tapir.org>
Message-Id: <199512061433.IAA05037@sys1.tapir.org>
Subject: Mail Bumps
To: aprssig@tapir.org (BBS SIG mailing)
Date: Wed, 6 Dec 1995 08:33:48 -0600 (CST)
X-Mailer: ELM [version 2.4 PL24]
Content-Type: text

Hi everyone. Lee and myself have been checking on the reason for people
getting dropped from time to time from the list. Seems like it might be
related to types of error messages some systems send back when mail does
bounce.

We have disabled the postpone counter for the time being until we can figure
out the error messages in question.

Hope to have something figured out here soon.

Cheers - Greg

From Paul_Moller@csg.mot.com Wed Dec 06 08:40:32 1995
Received: from motgate.mot.com (motgate.mot.com [129.188.136.100]) by
sys1.tapir.org (8.7.2/8.7.2) with ESMTP id IAA05201 for <aprssig@tapir.org>; Wed, 6
Dec 1995 08:40:29 -0600 (CST)

Received: from pobox.mot.com (pobox.mot.com [129.188.137.100]) by motgate.mot.com (8.7.1/8.6.10/MOT-3.8) with ESMTP id IAA12399 for <aprssig@tapr.org>; Wed, 6 Dec 1995 08:39:56 -0600 (CST)

Received: from OAMPC10.csg.mot.com (OAMPC10.csg.mot.com [144.188.134.33]) by pobox.mot.com (8.7.1/8.6.10/MOT-3.8) with SMTP id IAA20614 for <aprssig@tapr.org>; Wed, 6 Dec 1995 08:39:53 -0600 (CST)

Received: from PAULM_PC (PaulM_PC.csg.mot.com [144.188.36.8]) by OAMPC10.csg.mot.com (8.6.8.1/8.6.6) with SMTP id IAA22444 for <aprssig@tapr.org>; Wed, 6 Dec 1995 08:47:06 -0600

Date: Wed, 6 Dec 1995 08:47:06 -0600

Message-Id: <199512061447.IAA22444@OAMPC10.csg.mot.com>

X-Sender: mollpj@144.188.134.33

X-Mailer: Windows Eudora Pro Version 2.1.2

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

To: aprssig@tapr.org

From: Paul Moller <Paul_Moller@csg.mot.com>

Subject: QST patch antenna

I am building the patch antenna as found in a recent issue of QST. I have been looking for an appropriate radome, ie: plastic box. An Rubbermaid food container mounted upside down seemed a possibility, but by the time you get one big enough, the cosmetics become too extreme.

Has anyone found an available and cosmetically appropriate box?

Paul, WD9ABE

Maybe closer to Great Lakes NTC than anybody.

From dwetzel@acs.uswest.com Wed Dec 06 09:03:20 1995

Received: from uswat.advtech.uswest.com (uswat.advtech.uswest.com [130.13.16.1]) by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id JAA05917 for <aprssig@tapr.org>; Wed, 6 Dec 1995 09:03:16 -0600 (CST)

From: dwetzel@acs.uswest.com

Received: from easthub ([151.117.26.86]) by uswat.advtech.uswest.com (8.7.1/8.7.1) with SMTP id IAA22185 for <aprssig@tapr.org>; Wed, 6 Dec 1995 08:03:11 -0700 (MST)

Received: by easthub.mnet.uswest.com (M-Net Hub.950111)

Received: from acmspgw1.mnet.uswest.com by acs.uswest.com (5.x/SMI-SVR4)

id AA09223; Wed, 6 Dec 1995 09:03:08 -0600

Received: from ccMail by acmspgw1.mnet.uswest.com

(IMA Internet Exchange 1.04b beta) id 0c5a74e0; Wed, 6 Dec 95 08:23:10 -0600

Mime-Version: 1.0

Date: Wed, 6 Dec 1995 08:04:45 -0600

Message-Id: <0c5a74e0@acmspgw1.mnet.uswest.com>

Subject: Re: [APRSSIG:4937] Re: Any demand for rail history APRS maps

To: aprssig@tapr.org

Content-Type: text/plain; charset=US-ASCII

Content-Transfer-Encoding: 7bit

Content-Description: cc:Mail note part

Any options you want to add can only make a great tool better! Thanks for your work, Ken!!!

Doug
KC7CO

Subject: [APRSSIG:4937] Re: Any demand for rail history APRS maps?
From: aprssig@tapr.org at Internet-Mail
Date: 12/5/95 22:48

I AM! I AM!

At 09:36 PM 12/5/95 -0600, you wrote:

>Are there any railroad history buffs out there? While trying to chase down
>the last set of bugs in MKMAPKKE I noticed there are several map feature
>categories under "railroads" that might be interesting; "abandoned",
>"dismantled", and under the road category, "old railroad grade".
>
>If there is any interest, I could add these to the menu for MKMAPKKE. In
>Oregon, the hunters often use the old railroad grades for hiking access into
>the mountains. Not necessarily an APRS application, but this historical map
>data might be of interest for specialized applications.
>
>73, Ken, W7KKE
>kswaggart@aol.com
>
>

From GYoung@ubmede.buffalo.edu Wed Dec 06 09:05:14 1995
Received: from pcmq.cit.buffalo.edu (pcmq.cit.buffalo.edu [128.205.200.50]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id JAA06108 for <aprssig@tapr.org>; Wed, 6
Dec 1995 09:05:11 -0600 (CST)
Received: from ubmed.buffalo.edu ([128.205.176.180]) by pcmq.cit.buffalo.edu
(8.6.10/8.6.4) with SMTP id KAA19583 for <aprssig@tapr.org>; Wed, 6 Dec 1995
10:05:12 -0500
Received: by ubmed.buffalo.edu with Microsoft Mail
id <30C5DC39@ubmed.buffalo.edu>; Wed, 06 Dec 95 10:08:57 PST
From: "Young, Gregory" <GYoung@ubmede.buffalo.edu>
To: aprssig@tapr.org
Subject: [APRSSIG:4928] Re: 144.390????
Date: Wed, 06 Dec 95 10:08:00 PST
Message-ID: <30C5DC39@ubmed.buffalo.edu>
Encoding: 34 TEXT
X-Mailer: Microsoft Mail V3.0

144.390 is in the middle of the "new Oscar subband", which will be used for
Phase 3d. once that is launched. Our regional bandplanning group did
check into the freqs anticipated for phase 3d, and 144.390 did NOT conflict.

OWNYPAG (The Ontario Western NY Packet Advisory Group) adopted the proposed
"Canadian" bandplan, for our region, as it is the best to meet the needs of
the 90's, compared to the existing ARRL plan that is listed in our repeater

guides.. Also, as it serves all of Canada, and therefore makes for uniformity. We had a rep. from the ARRL national Vhf/Uhf group, as well as his RAC counterpart, so the plan was not made in a vacuum! Months of thought and negotiation went into it.

The plan needed revision, it was not forthcoming from national, so we tackled it. We even made room for existing AM groups on 2 meters!! (grandfathered in, as well as FM simplex in this subband, again based on the planned up/downlinks proposed).

I need hardly point out that the freqs arbitrarily picked for shuttle communication, used at the time when the ONLY freqs available for packet, 144.91 to 145.09Mhz created some problems (and still do). Fortunately there are no other packet subbands.

It's time for ALL to sit down and try to coordinate things a bit! The growth of digital has far exceeded the demand for repeaters, manyfold. Look at the spectrum allotted for those devices.. take a listen to the activity on those, or should I say lack of activity..

73, Greg, KE2VW
Chairman, OWNYPAG (Ontario Western NY Packet Advisory Group)
Chairman, WNYSORC (Western NY Southern Ontario Repeater Council)

From dwetzel@acs.uswest.com Wed Dec 06 09:30:24 1995
Received: from uswat.advtech.uswest.com (uswat.advtech.uswest.com [130.13.16.1])
by sys1.tapir.org (8.7.2/8.7.2) with ESMTTP id JAA06887 for <aprssig@tapir.org>; Wed,
6 Dec 1995 09:30:20 -0600 (CST)
From: dwetzel@acs.uswest.com
Received: from easthub ([151.117.26.86]) by uswat.advtech.uswest.com (8.7.1/8.7.1)
with SMTP id IAA23732 for <aprssig@tapir.org>; Wed, 6 Dec 1995 08:30:14 -0700 (MST)
Received: by easthub.mnet.uswest.com (M-Net Hub.950111)
Received: from acmspgw1.mnet.uswest.com by acs.uswest.com (5.x/SMI-SVR4)
id AA09539; Wed, 6 Dec 1995 09:30:07 -0600
Received: from ccMail by acmspgw1.mnet.uswest.com
(IMA Internet Exchange 1.04b beta) id 0c5ad9e0; Wed, 6 Dec 95 08:50:06 -0600
Mime-Version: 1.0
Date: Wed, 6 Dec 1995 08:31:28 -0600
Message-Id: <0c5ad9e0@acmspgw1.mnet.uswest.com>
Subject: Re: [APRSSIG:4943] Re: 145.79 again.
To: aprssig@tapir.org
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Description: cc:Mail note part

Adding orbital calculation code to APRS would certainly "fatten it up"! Rather than program limitations in the software, we might consider voluntary modifications to our operating habits when we have close celestial neighbors on .80.

We should all have our beacons and digi beacons set to the maximum practical interval - more than 30 minutes, at least. That significantly cuts the possibility that digi'ing of beacons will overlap a spacecraft orbit. If we all used our satellite tracking software to keep track of those periods and minimized keyboard and tracker activity when a manned mission is using .80, we might find that peaceful coexistence is possible without any modifications.

With the amount of orbital modification that occurs with the normal shuttle flight, updated keps should probably be done every day. Most of the on-line services carry keps and keep them updated, especially when a shuttle mission is aloft. They are also available from archive.afit.af.mil in the /pub/space directory for those with Internet access.

If we hope to get wide support for APRS equipped manned missions, a cooperative posture will sure go a long way toward winning friends among the payload decision makers!!

Doug
KC7CO
dwetzel@acs.uswest.com

>

Well Bob here is a new thought...with the space vehicles passing for such short periods of time, with only a few effective passes over a given area in a 24hr period and given the short transmit cycle of most APRS stations why not include in your regular APRS a feature you included in the APRTrak program. That is, have everyone upload the current KEPS and have APRS track the space vehicles. When ever the target 145.80 station's effective area enters the area of the tracking APRS, have APRS inhibit all transmits and digi's during that short pass.

...FredQ.

From bruninga@nadm.navy.mil Wed Dec 06 10:08:19 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id KAA08466 for <aprssig@tapir.org>; Wed,
6 Dec 1995 10:08:16 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
KAA05236; Wed, 6 Dec 1995 10:26:44 -0500
Date: Wed, 6 Dec 1995 10:26:43 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapir.org
cc: amsat-bb@amsat.org
Subject: 145.80 vs 145.79 SOLVED!
In-Reply-To: <199512061219.GAA20262@brazos.bihs.net>
Message-ID: <Pine.SUN.3.91.951206091034.2895D-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 6 Dec 1995, Fred Quarles suggested adding Spacecraft tracking to APRS (since it is already in APRtrak) and have APRS go to a MINIMIZE mode during a pass. This idea is the basis for a PERMANENT SOLUTION!

I can put a MINIMIZE function in all APRS software that is capable of being commanded to MINIMIZE non-essential APRS packets during a pass as follows:

1) One station in each APRS area will be designated as a "MINIMIZE" command station. It will have a special version of APRtrak that has the ability to transmit a MINIMIZE command on 145.79.

2) On receipt of a MINIMIZE command, all APRS stations will hold off non essential packets for about 7 minutes. Since all routine APRS beacons are transmitted at a 15 or 20 minute rate anyway, this will have an insignificant effect on ROUTINE operations.

3) WHEN a station receives the MINIMIZE command, the SCREEN will show that MINIMIZE has been effected. ANY APRS operator can decide to OVERRIDE the MINIMIZE if he is doing something special that needs to continue to operate during those 7 minutes.

4) ALL OFFICIAL SAREX and other planned events will be given access to the special version of APRtrak that can generate the MINIMIZE command.

5) THE UTLIMATE solution is for Space Station to carry APRtrak. Even during VOICE operations, at the end of each VOICE transmission, a single 0.2 second packet burst would be transmitted that contains the standard APRS GPS POSIT! Not only will this allow EVERYONE to see where the SPACE STATION is, but it will also trigger the MINIMIZE function in those area wide MINIMIZE command stations. In effect, the SPACE user REQUESTS a MINIMIZED frequency as it moves! (and only when it needs it)

CONCLUSION: Everyone is happy, everyone stays put, the 145.77 guys are not impacted, the APRS users have control over their stations, but we have used technology to solve an un-resolvable frequency coordination problem! I will work with Keith to finalize the details....

Remember, it wont take many COMMAND stations. One station in Maryland could execute MINIMIZE via the existing network and affect APRS stations out 250 miles via the network.

AND adding the Packet burst (with GPS posit in it) is not a burden to the SAREX or SPACE STATION, but an actual ADVANTAGE! It can serve as an alerting beacon that the SPACE STATION is in range and shows the schools where the STATION is...

From rwf@mindspring.com Wed Dec 06 10:20:41 1995

Received: from borg.mindspring.com (root@borg.mindspring.com [204.180.128.14]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id KAA08946 for <aprssig@tapr.org>; Wed, 6 Dec 1995 10:20:39 -0600 (CST)

Received: from rwf.mindspring.com [168.121.44.154] by borg.mindspring.com

with SMTP id LAA24621 for <aprssig@tapr.org>; Wed, 6 Dec 1995 11:20:30 -0500

Date: Wed, 6 Dec 1995 11:20:30 -0500

Message-Id: <199512061620.LAA24621@borg.mindspring.com>

X-Sender: rwf@mindspring.com

X-Mailer: Windows Eudora Version 2.1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: rwf <rwf@mindspring.com>
Subject: Re: [APRSSIG:4940] Re: Mapfix Bug

Sounds good. Now that Bob told me what the "work-around" is (to pretend that the displayed figure has a 0 ahead of it and that the number is less than 1), I can deal with it. But it'd sure be nice if it displayed correctly. Go for it
Ralph

At 01:28 AM 12/6/95 -0600, you wrote:

>>
>This small problem is due to the whay Bob displays the minutes and seconds
>in the box. I have made some small code modifications that probably would
>fix this. For Bob's info, this involves the PRINT USING statement in the
>code.
>
>I'm trying to get my hands on Quick Basic so that I can create a
>compiled version of Mapfix. Right now, using ver1.1 of QB, I have to
>remove the USGS and Digitizer code so that I don't run out of memory!
>
>Michael
>--
>Michael Markmann VE4MJM |
>ve4mjm@draco.bison.mb.ca (Internet) | ERROR! REALITY.SYS Corrupted!
>VE4MJM@VE4KV.#WPG.MB.CAN.NA (AX.25) | Reboot UNIVERSE.EXE!
>Hobbies: Electronics, Amateur Radio, Computers, Model Trains, ...
>
>
>

From andrewz@leba.net Wed Dec 06 11:04:56 1995
Received: from fig.leba.net (fig.leba.net [204.171.58.1]) by sys1.tapr.org
(8.7.2/8.7.2) with ESMTP id LAA10675 for <aprssig@tapr.org>; Wed, 6 Dec 1995
11:04:51 -0600 (CST)
Received: (from andrewz@localhost) by fig.leba.net (8.7.1/8.7.1) id MAA15184; Wed,
6 Dec 1995 12:05:11 -0500 (EST)
Date: Wed, 6 Dec 1995 12:05:11 -0500 (EST)
From: Andrew Zimmerman <andrewz@leba.net>
To: aprssig@tapr.org
Subject: Re: Baycom tnc in a connector
In-Reply-To: <199512051801.NAA11431@borg.mindspring.com>
Message-ID: <Pine.BSI.3.90.951206120301.14739B-1000000@fig.leba.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

What about using the BPQ switch with APRS? You can use the switch

software with a Baycom modem with a special driver. I have the switch working but could not get APRS working with BPQ. Has anyone done that?

73 de Andrew, AA3AK

andrewz@leba.net Compu\$erve 73307,2755 Amateur Radio AA3AK

On Tue, 5 Dec 1995, rwf wrote:

> A Baycom is only a *MODEM* not a TNC. The TNC-like functions are handled
> in the software running on the PC connected to the MODEM.
> APRS requires a TNC.
> Unless Bob wanted to add MODEM drivers to his code, which I feel is
> unlikely, the Baycom is not going to work.
>
> TNCs are small enough now, and reasonably priced enough (See the
> Pico-Packet from Paccomm) that I seriously wonder why anyone would mess with
> a Baycom type device now anyway. But I have one if you know anyone who
> wants to buy it.
>
>
> Ralph
> N4NEQ
>
>
>
> At 09:35 AM 12/5/95 -0600, you wrote:
> >Does anyone know if it is possible to use a Baycom TNC in a connector with
> >APRS? I think this question was posed a while ago, but I can't seem to find
> >an answer. Even if it could be made to work RX only would be ok.
> >
> >Paul, WD9ABE
> >
> >
>
>

From Paul_Moller@csg.mot.com Wed Dec 06 11:05:28 1995

Received: from motgate.mot.com (motgate.mot.com [129.188.136.100]) by
sys1.tapr.org (8.7.2/8.7.2) with ESMTP id LAA10700 for <aprssig@tapr.org>; Wed, 6
Dec 1995 11:05:24 -0600 (CST)

Received: from pobox.mot.com (pobox.mot.com [129.188.137.100]) by motgate.mot.com
(8.7.1/8.6.10/MOT-3.8) with ESMTP id LAA23008 for <aprssig@tapr.org>; Wed, 6 Dec
1995 11:04:44 -0600 (CST)

Received: from OAMPC10.csg.mot.com (OAMPC10.csg.mot.com [144.188.134.33]) by
pobox.mot.com (8.7.1/8.6.10/MOT-3.8) with SMTP id LAA07308 for <aprssig@tapr.org>;
Wed, 6 Dec 1995 11:04:43 -0600 (CST)

Received: from PAULM_PC (PaulM_PC.csg.mot.com [144.188.36.8]) by
OAMPC10.csg.mot.com (8.6.8.1/8.6.6) with SMTP id LAA25116 for <aprssig@tapr.org>;
Wed, 6 Dec 1995 11:11:55 -0600

Date: Wed, 6 Dec 1995 11:11:55 -0600
Message-Id: <199512061711.LAA25116@OAMPC10.csg.mot.com>
X-Sender: mollpj@144.188.134.33 (Unverified)
X-Mailer: Windows Eudora Pro Version 2.1.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: Paul Moller <Paul_Moller@csg.mot.com>
Subject: Best band?

>But 2 meters is not effected by the environment as much as UHF and
>above making it better for mobile ground communications, or for
>tracking mobiles, where UHF and the microwave bands seem to be better
>for space comms.

I beg to differ....2 m is highly effected by the environment, as is evident when there is a band opening all *#\$\$@! breaks loose. It is this very issue that is either a problem if you are a user on a digital network, or a boom if you are a DX chaser.

2m has lower path loss, by about 6 dB or so, than 70 cm and is thus better for mobile where signals tend to be weak. Although one can achieve more antenna gain at UHF, the problems with fading on NON-error tolerant digital signals (like our ax.25 packet protocol) can be a serious problem at UHF in a mobile environment.

I would recommend that APRS stay on 2m for mobile and related uses. (I will stay out of the 145.790 freq. discussion). But, is there a need for a backbone type link between major metropolitan areas running 9k6 baud on UHF. I say yes! Its only a matter of time until the single 1200 baud channel is congested. (Gee sounds just like 2m packet was like 10 years ago, before the addition of other channels.) Is there a plan to incorporate multiple tnc's and new path names into APRS to handle the desire to show up in multiple cities without going to hf? In Chicago I would like to see the WX in Milwaukee, and St. Louis, and Greenbay and etc, but just listen to 30 m today, it's getting busy! Just a thought.

Paul, WD9ABE
Maybe closer to Great Lakes NTC than anybody.

From scout@cent.com Wed Dec 06 12:14:14 1995
Received: from ns.cent.com (root@[206.25.18.2]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id MAA00153 for <aprssig@tapr.org>; Wed, 6 Dec 1995 12:14:10 -0600 (CST)
Received: from ppp4.cent.com (ppp4.cent.com [206.25.18.4]) by ns.cent.com (8.6.12/8.6.12) with SMTP id MAA18584 for <aprssig@tapr.org>; Wed, 6 Dec 1995 12:13:45 -0600
Date: Wed, 6 Dec 1995 12:13:45 -0600
Message-Id: <199512061813.MAA18584@ns.cent.com>
X-Sender: scout@cent.com

X-Mailer: Windows Eudora Version 1.4.3
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: scout@cent.com (neil lauritsen)
Subject: Re: [APRSSIG:4951] 145.80 vs 145.79 SOLVED!

Well Done!! I have been following this thread with concerned interest and I knew that given the time, a workable solution would be forthcoming. Thanks Fred, Keith, and THANKS Bob.

>On Wed, 6 Dec 1995, Fred Quarles suggested adding Spacecraft tracking
>to APRS (since it is already in APRtrak) and have APRS go to a MINIMIZE
>mode during a pass. This idea is the basis for a PERMANENT SOLUTION!

Neil - KA3DBK
EC Pinellas Co. ARES

From dwetzel@acs.uswest.com Wed Dec 06 12:34:27 1995
Received: from uswat.advtech.uswest.com (uswat.advtech.uswest.com [130.13.16.1])
by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id MAA01157 for <aprssig@tapr.org>; Wed,
6 Dec 1995 12:34:24 -0600 (CST)
From: dwetzel@acs.uswest.com
Received: from easthub ([151.117.26.86]) by uswat.advtech.uswest.com (8.7.1/8.7.1)
with SMTP id LAA07285 for <aprssig@tapr.org>; Wed, 6 Dec 1995 11:06:24 -0700 (MST)
Received: by easthub.mnet.uswest.com (M-Net Hub.950111)
Received: from acmspgw1.mnet.uswest.com by acs.uswest.com (5.x/SMI-SVR4)
id AA11401; Wed, 6 Dec 1995 12:05:13 -0600
Received: from ccMail by acmspgw1.mnet.uswest.com
(IMA Internet Exchange 1.04b beta) id 0c5d1fb0; Wed, 6 Dec 95 11:25:15 -0600
Mime-Version: 1.0
Date: Wed, 6 Dec 1995 11:06:34 -0600
Message-Id: <0c5d1fb0@acmspgw1.mnet.uswest.com>
Subject: Re: [APRSSIG:4951] 145.80 vs 145.79 SOLVED!
To: aprssig@tapr.org
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Description: cc:Mail note part

Bravo, Bob and Keith!

djw
KC7CO

Subject: [APRSSIG:4951] 145.80 vs 145.79 SOLVED!
From: aprssig@tapr.org at Internet-Mail
Date: 12/6/95 10:17

On Wed, 6 Dec 1995, Fred Quarles suggested adding Spacecraft tracking
to APRS (since it is already in APRtrak) and have APRS go to a MINIMIZE
mode during a pass. This idea is the basis for a PERMANENT SOLUTION!

I can put a MINIMIZE function in all APRS software

From JAgrelo@aol.com Wed Dec 06 13:12:31 1995
Received: from mail02.mail.aol.com (mail02.mail.aol.com [152.163.172.66]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id NAA03146 for <aprssig@tapr.org>; Wed, 6
Dec 1995 13:12:29 -0600 (CST)
From: JAgrelo@aol.com
Received: by mail02.mail.aol.com (8.6.12/8.6.12) id MAA01262 for aprssig@tapr.org;
Wed, 6 Dec 1995 12:39:20 -0500
Date: Wed, 6 Dec 1995 12:39:20 -0500
Message-ID: <951206123919_65504844@mail02.mail.aol.com>
To: aprssig@tapr.org
cc: JAgrelo@aol.com
Subject: TAPR web site

I havn't been able to retrieve the TAPR web site for 2 days now, is anyone
else having this problem?

73 de Joe N200C

Joe Agrelo/N200C
Agrelo Engineering
Ph (518)381-1057
Fx (518)381-1058
E-mail- jagrelo@aol.com
In the Web <http://home.navisoft.com/agrelo/ae.htm>
Designer and Manufacturers of intelligent microprocessor based Doppler
and talking products
Experts in Microchip and Motorola processors
Cruise Missile Coordinates 42 47.427N, 073 56.525W

From lancer@airways.com Wed Dec 06 13:15:53 1995
Received: from sonic.net (root@sonic.net [199.4.118.11]) by sys1.tapr.org
(8.7.2/8.7.2) with SMTP id NAA03204 for <aprssig@tapr.org>; Wed, 6 Dec 1995
13:15:50 -0600 (CST)
Received: from pm147.sonic.net (pm147 [199.4.118.147]) by sonic.net
(8.6.10/8.6.10) with SMTP id LAA10262 for <aprssig@tapr.org>; Wed, 6 Dec 1995
11:14:54 -0800
Date: Wed, 6 Dec 1995 11:14:54 -0800
Message-Id: <199512061914.LAA10262@sonic.net>
X-Sender: lancer@pop.sonic.net
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: lancer@airways.com (Lance Robinson)
Subject: APRS: Newbie Question

Hello All,

I have some real basic questions about APRS (also about Packet Radio). If anyone can tackle a few for me, I'd appreciate it. Here we go...

Q: Where are FAQ files for APRS and Packet Radio?

Q: How is APRS pronounced?

Q: Can someone who is not an Amateur radio operator have an APRS setup (roaming transmitter and base)?

Q: (I picked up the buzzword TNC) How dumb/intelligent are these things--what features and costs are there?

Q: What kind of collision detection is used before/during packet transmitting is used (if any) ?

Q: What is the smallest and most portable transmitter configuration (Locator/TNC/Radio) ? How long will this configuration last on a set of batteries?

Q: Are there any portable radio's with a built in TNC?

Q: What kind of base software is available? Do they run on DOS, Windows or ...??

Q: Roughly, how many roaming devices are potentially in use? How many bases are there?

Q: What are the current limitations of APRS? i.e., maximum units being tracked, maximum distance from base (or repeaters), error rate, ...?

Q: What is APRS currently being used for? What about the future?

Q: When will every vehicle, child, and dog be tracked via APRS ? :-)

Thanks for any replies, --Lance

```
-----<><
D.Lance Robinson (lancer@airways.com)
Office: (707)526-6488      ! /==\  /7      /-----
      Fax: (707)526-5643      <=====! ----( Airways Technology, Inc. (
      Home: (707)823-8227      ! 8      \-----
```

From Wb2ngz@aol.com Wed Dec 06 14:22:55 1995
Received: from emout04.mail.aol.com (emout04.mail.aol.com [198.81.10.12]) by
sys1.tapir.org (8.7.2/8.7.2) with SMTP id OAA05728 for <aprssig@tapir.org>; Wed, 6
Dec 1995 14:22:52 -0600 (CST)
From: Wb2ngz@aol.com
Received: by emout04.mail.aol.com (8.6.12/8.6.12) id MAA17502 for
aprssig@tapir.org; Wed, 6 Dec 1995 12:51:50 -0500

Date: Wed, 6 Dec 1995 12:51:50 -0500
Message-ID: <951206125149_46369371@emout04.mail.aol.com>
To: aprssig@tapr.org
Subject: GPS TNC

A friend of mine here in Daytona Beach, KD4KDR, and I have been experimenting with APRS for about 3 months now. There are now 7 of us who play APRS on 145.790 every night now in Daytona Beach. KD4KDR would like to set up a GPS and TNC in his mobile. I'm looking for suggestions from the experts as to the best, cheapest, smallest GPS TNC to use for this purpose. I am also wondering, at this initial stage, what controls the GPS/TNC position report timing. Is it programmable with a TNC parameter or is it uncontrollable.

P.S.: I am still waiting for WB4APR to include an ICBM symbol in APRS that explodes on impact so that our Daytona Beach "war games" will be more realistic...He He.

73...WB2NGZ@AOL.com

From CHEAD@exame2.dseg.ti.com Wed Dec 06 14:26:57 1995
Received: from gate.ti.com (news.ti.com [192.94.94.33]) by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id OAA05819 for <aprssig@tapr.org>; Wed, 6 Dec 1995 14:26:52 -0600 (CST)
Received: from lesol1.dseg.ti.com ([128.247.231.86]) by gate.ti.com (8.6.12/) with ESMTP id OAA17118 for <aprssig@tapr.org>; Wed, 6 Dec 1995 14:26:17 -0600
Received: from exame2.dseg.ti.com (EXAME2.dseg.ti.com [128.247.183.127]) by lesol1.dseg.ti.com (8.6.9/8.6.6) with SMTP id OAA07241 for <aprssig@tapr.org>; Wed, 6 Dec 1995 14:25:46 -0600
Date: Wed, 6 Dec 1995 14:25:22 -0600 (CST)
From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
To: aprssig@tapr.org
CC: CHEAD@exame2.dseg.ti.com
Message-Id: <951206142522.2060746f@exame2.dseg.ti.com>
Subject: Dallas Marathon

The Dallas White Rock Marathon will be held on this coming Sunday, December 10. While there is a lot of APRS interest in Dallas, we are really just getting started with it. We had hoped to use at least one APRS tracker for the marathon. However, some more equipment has become available and we'll now be running several trackers. The problem now is that we don't have good detailed maps of Dallas, and none of us has any experience making them yet.

If there is anyone out there who has access to the 2,000,000:1 data for Dallas and has the time and inclination to make a more detailed map of the Dallas area that we could use for the marathon it would be a BIG addition to our APRS experiment this weekend. I think that a 10 mile map, centered roughly at the intersection of ROSS AVE. and GREENVILLE AVE in Dallas would be just right.

I apologize for the late notice. Anything that anyone can come up with will be more than we have available now. Thanks in advance.

73 Claude Head K5DTN
13316 Spring Grove
Dallas, TX 75240
214.386.8966 home phone
214.995.5040 office phone
chead@exame2.dseg.ti.com

From randyh@gvgadg.gvg.TEK.COM Wed Dec 06 14:42:15 1995
Received: from inet1.tek.com (inet1.tek.com [134.62.48.21]) by sys1.tapir.org
(8.7.2/8.7.2) with SMTP id OAA06351 for <aprssig@tapir.org>; Wed, 6 Dec 1995
14:42:10 -0600 (CST)
Received: by inet1.tek.com id <AA42878@inet1.tek.com>; Wed, 6 Dec 1995 12:41:37
-0800
Received: from tektronix.tek.com(134.62.48.24) by inet1 via smap (V1.3)
id sma017769; Wed Dec 6 12:41:14 1995
Received: from gv-gate.gvg.tek.com by tektronix.TEK.COM (4.1/8.2)
id AA26499; Wed, 6 Dec 95 12:40:42 PST
Received: from gvgadg.gvg.tek.com by gv-gate.gvg.tek.com (5.0/2.3)
id AA21985; Wed, 6 Dec 1995 12:41:22 +0800
Received: from hallrpc (hallrpc.gvg.tek.com) by gvgadg.gvg.tek.com (4.1/SMI-4.1)
id AA05680; Wed, 6 Dec 95 12:41:21 PST
Message-Id: <9512062041.AA05680@gvgadg.gvg.tek.com>
X-Sender: randyh@gvgadg.gvg.tek.com
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Wed, 06 Dec 1995 12:41:20 -0800
To: aprssig@tapir.org
From: randyh@gvgadg.gvg.TEK.COM (Randy Hall)
Subject: APRS Train Trip

Randy's Great American APRS Train Trip

or

My Wife Thinks There Is Too Much Technology On This Trip.

Two weeks from today, Wed Dec 20 to Sat Dec 23, my wife and I will be on the
AMTRAK train from Sacramento Ca. to Rochester NY for Christmas.

The trip basically is from:

Sacramento, Reno, Salt Lake City, Denver, Lincoln, Omaha, Chicago, Toledo,
Cleveland, Buffalo, and Rochester.

I'll have along my goodie bag of toys including; PC Laptop, FT-51R & FT470
HTs, Pico Packet TNC, GPS-45 w/active ant, Scanner for rail monitoring and
batteries. I'll also have along some reading material, Walkman with AM/FM
radio, camcorder, clean underwear, Swiss Army knife, and a bottle of Scotch.
We will have a Deluxe sleeper compartment to Chicago, then in a much smaller
sleeper the last night going into Rochester. The Deluxe sleeper room has

power available.

I plan on having my APRS system up and running along the trip. I need information about areas along the trip that have APRS activity and the local APRS frequency. Otherwise, I'll transmit on 145.79 MHz. I'll try and keep it running as much as I can. I don't know if I'll have room to keep the station running at night, but be on the lookout for it. The TNC has a PBBS, so leave me a message!

Please pass along your local APRS frequency. I'll be using the RELAY,WIDE,WIDE path, unless different for local areas. Point your beams at the train track!!

I'll try to also monitor the 2M FM railfan frequency of 146.49 MHz along the way.

I have found the lats and longs for each stop (Internet is great!) and will enter all that data into the GPS-45 as waypoints.

Below is the rail timetable, so that you can be on the lookout for me. I don't know how close AMTRAK keeps to schedule (if I get there on the right day that is probably doing good!). Also below is the lats and longs for the stops. If you have a better posit for the train station, please pass it along.

If anyone has any suggestions that will improve my operation, please pass them along.

Busy packing, planning, and testing,

Randy
WA2AGE
randyh@gvgadg.gvg.tek.com

5	Train Number		6
SuTuWeFr	Days of Operation		MoWeFrSa
	to/from Oakland		
Read Down			Read Up
	Miles	Station	Symbol
SuTuWeFr	departs		arrives WeFrSuMo
3:00p	0 dp	Chicago, IL.	ar 4:30p
3:35p	24	Naperville, IL.	3:15p
4:45p	104	Princeton, IL.	2:00p
5:48p	162	Galesburg, IL.	1:07p
6:36p	205	Burlington, IA.	12:05p
7:09p	233	Mt. Plessant, IA.	11:30a
7:54p	280	Ottumwa, IA.	10:45a
9:10p	360	Osceola, IA.	9:24a
9:41p	393	Creston, IA.	8:49a
11:37p	501 ar	OMAHA, NE.	dp 7:00a
11:59p	dp	OMAHA, NE.	ar 6:35a
MoWeThSa			

1:07a	555	ar	LINCOLN, NE.	dp	5:30a
1:17a		dp	LINCOLN, NE.	ar	5:20a
2:50a	652		Hastings, NE.		3:47a
3:39a	706		Holdrege, NE.		2:55a
4:58a	784		McCook, NE. (CT)		1:48a
				WeFrSuMo	
6:23a	960		Ft. Morgan, CO. (MT)		10:15p
8:25a	1037	ar	DENVER, CO.	dp	9:00p
9:10a		dp	DENVER, CO. (bus Colo. Springs)	ar	7:50p
11:05a	1100		Winter Park, Fraser CO.		5:05p
11:35a	1113		Granby, CO.		4:40p
2:50p	1222		Glenwood Springs, CO.		1:30p
4:55p	1311		Grand Junction, CO.		11:45a
6:10p	1390		Thompson, UT. (flag stop)		9:45a
8:00p	1488		Helper, UT.		8:10a
10:05p	1564		Provo, UT.		6:05a
11:36p	1608	ar	SALT LAKE CITY, UT.(MT)	dp	5:15a
TuThFrSu					
12:35a		dp		ar	4:08a
				TuThSaSu	
3:48a	1871		Elko, NV. (PT)		10:18p
5:55a	2009		Winnemucca, NV.		8:13p
7:30a	2062		Lovelock, NV.		7:05p
9:15a	2180	ar	SPARKS, NV.	dp	5:35p
9:30a		dp		ar	5:20p
9:41a	2184		Reno, NV.		5:00p
10:34a	2216		Truckee, CA.(Lake Tahoe)		4:03p
12:42p	2284		Colfax, CA.		1:52p
1:48p	2319		Roseville, CA.		1:02p
2:40p	2337		Sacramento, CA.		12:35p

48	Train Number		49
Daily	Station		Daily
(read down)			(read up)
Amtrak Thruway Bus Connection--Madison WI/Chicago IL			
Schedule below			
8:00p	0	dp Chicago, IL	CT ar 12:28p
8:29p	16	Hammond-Whiting, IN	CT 11:34p
10:35p	84	South Bend, IN	EST 11:31a
11:02p	101	Elkhart, IN	EST 11:06a
11:50p	156	Waterloo, IN	EST 10:20a
12:12a	181	Bryan, OH	ET 9:55a
1:16a	234	ar Toledo, OH	dp 9:04a
1:34a		dp Toledo, OH	ar 8:39a
2:24a	281	Sandusky, OH	7:43a
2:58a	316	Elyria, OH (Lorain)	7:09a
3:36a	341	ar Cleveland, OH	6:36a
3:46a		dp Cleveland, OH	6:26a
5:14a	436	Erie, PA	4:53a
6:47a	528	ar Buffalo, NY (Depew Sta)	dp 3:21a
7:17a		dp Buffalo, NY (Depew Sta)	ar 2:51a
8:15a	589	Rochester, NY	1:52a

SACRAMENTO	CA	38 35 5 N	121 29 23 W
ROSEVILLE CA	38 44 52 N	121 17 6 W	
COLFAX	CA	39 5 59 N	120 57 10 W
TRUCKEE	CA		
RENO	NV	39 31 22 N	119 48 25 W
SPARKS	NV	39 32 16 N	119 45 7 W
LOVELOCK NV	40 10 48 N	118 28 22 W	
WINNEMUCCA	NV	40 58 22 N	117 43 55 W
ELKO	NV	40 49 48 N	115 45 36 W
SALT LAKE UT	40 32 31 N	111 53 49 W	
PROVO	UT	40 13 58 N	111 39 25 W
HELPER	UT	39 41 16 N	110 51 10 W
THOMPSON UT	38 58 26 N	109 43 4 W	
GRAND JUNCTION	CO	39 4 4 N	108 33 0 W
GLENWOOD SPRINGSCO		39 32 34 N	107 19 19 W
GRANBY	CO	40 4 58 N	105 56 24 W
WINTER PARK	CO	40 4 30 N	106 2 27 W
DENVER	CO	39 44 24 N	104 59 16 W
FORT MORGAN	CO	40 15 10 N	103 48 0 W
MCCOOK	NE	40 12 18 N	100 37 37 W
HOLDREGE NE	40 26 23 N	99 22 19 W	
HASTINGS NE	40 35 24 N	98 23 6 W	
LINCOLN	NE	40 49 22 N	96 41 6 W
OMAHO	NE	41 16 58 N	96 0 29 W
CRESTON	IA	41 3 28 N	94 21 43 W
OSCEOLA	IA	41 2 5 N	93 46 2 W
OTTUMWA	IA	41 1 12 N	92 24 37 W
MT PLEASANT	IA	40 57 28 N	91 33 25 W
BURLINGTON	IA	40 48 36 N	91 13 58 W
GALESBURG IL	40 56 52 N	90 22 1 W	
PRINCETON IL	41 22 30 N	89 28 6 W	
NAPERVILLE	IL	41 46 4 N	88 7 38 W
CHICAGO	IL	41 52 58 N	87 37 30 W
HAMMOND	IL	39 47 41 N	88 35 31 W
SOUTH BEND	IN	41 40 29 N	86 15 7 W
ELKHART	IA	41 47 31 N	93 31 23 W
BRYAN	OH	41 28 22 N	84 33 7 W
TOLEDO	OH	41 35 27 N	83 31 42 W
SANDUSKY OH	41 26 52 N	82 42 26 W	
ELYRIA	OH	41 21 54 N	82 6 36 W
CLEVELAND OH	41 29 49 N	81 41 59 W	
ERIE	PA	42 6 46 N	80 4 23 W
BUFFALO	NY	42 53 13 N	78 52 30 W
ROCHESTER NY	43 9 28 N	77 36 29 W	

| My opinions are my own. |

| My computer is multimedia deprived. |

|
Randy Hall WA2AGE randyh@gvgadg.gvg.tek.com Grass Valley Group

From bruninga@nadm.navy.mil Wed Dec 06 15:11:26 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id PAA07539 for <aprssig@tapr.org>; Wed,
6 Dec 1995 15:11:22 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
QAA14781; Wed, 6 Dec 1995 16:11:29 -0500
Date: Wed, 6 Dec 1995 16:11:28 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: 73303.3537@compuserve.com
cc: INTERNET:@greatlakes.nadm.navy.mil, COORDINATOR@CS.TAMU.EDU;;
aprssig@tapr.org
Subject: APRS Information Needed (Answers)
Message-ID: <Pine.SUN.3.91.951206153851.13638F-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

FOLLOWING REPLYs ARE CAPATIALIZED FOR RECOGNITION.

> Chris Petersen, INTERNET:102261.1225@compuserve.com ASKED:

> I'd like some information regarding APRS to help me better understand the
> 145.79 issue better.

> How is APRS used?

ITS A CONNECTIONLESS DSITRIBUTED PACKET SYSTEM WHICH USES UI PACKETS
WITHOUT ACKS SO THAT EVERYONE SEES EVERYONE. THE PRIMARY FUNCTION IS THE
MAP DISPLAY WHICH SHOWS THE POSITION OF ALL STATIONS MOBILE AND FIXED,
AND ALSO ANY NUMBER OF SYMBOLS OR OBJECTS REPRESENTING ANYTHING FROM
RUNNERS, AMBULANCES, FIRETRUCKS, TORNADOS, RAIN, BOATS, SATELLITES...

> How much data is sent in a packet?

ONE LINE ONLY. CONTAINS DATE,TIME,POSITION,AND STATUS

> Who is sending the packets?

EVERYONE WHO HAS INFO TO SEND

> Base, mobile?

BOTH, MOSTLY BASE, NOW, BUT MOBILES ARE GROWING

> What percentage of channel availability is expected to be used?

THE OPTIMUM LOADING IS EXPECTED TO BE SOMEWHAT LESS THAN CSMA 36%

* NOTE THAT NO SINGLE USER HOGS THE CHANNEL FOR ANY LENGTH

* THE MAXIMUM PACKET RATE FROM THE MOST BUSY ACTIVE STATION IS
ABOUT ONE PACKET EVERY 15 SECONDS, BUT THIS PERIOD *DOUBLES*
AFTER EVERY PACEKT, SINCE OLD NEWS IS LESS VALUABLE

SO IT WOULD NEED TO BE A BUSY SET OF FINGERS THAT COULD LOAD
THE CHANNEL MORE THAN ABOUT 10%

> Is this channel to be used for DGPS services? If so, how many DGPS

servers do you need in a given coverage area?

YES/NO. WE TRIED IT, IT WORKS, BUT YOU NEED TO SEND DGPS PACEKTS EVERY 30 SECONDS OR SO TO BE OF ANY VALUE, AND THIS TAKES UP 30% OF THE CHANNEL CAPACITY! BEST SOLUTION FOR DGPS IS TO USE A DIFFERENT CHANNEL TRANSMITTING DGPS DATA ALMOST CONSTANTLY. NO NEED FOR THIS ON 2 METERS! NO NEED FOR DGPS IN APRS EITHER. *WE DONT NEED THAT ACCURACY* FOR TYPICAL PUBLIC SERVICE EVENTS.

> Why can't APRS share existing packet frequencies?

ONLY ONE REASON. THE MASSES THINK *UI* MEANS *BEACON* WHICH IS A FORBIDDEN WORD ON ALMOST *ALL* PACKET NETWORKS... BUT AN APRS UI FRAME CONVEYS NEW AND CHANGING INFORMATION AND ELIMINATES ACKS... EVERY PERMANENT PACKET SITE, BBS, NODE, WHATEVER, SHOULD SEND AN APRS POSIT/ID AT LEAST ONCE AN HOUR SO THAT EVERYONE CAN SEE THE NETWORK TOPOLOGY JUST BY MONITORING A FREQUENCY. MONITOR SUCH A NETWORK FOR AN HOUR AND YOU WILL BE AMAZED AT ALL THE DEVICES AND SERVICES ARE ON THAT FREQUENCY. APRS ID/POSIT BEACONS ARE AN *IDEAL* FERQUENCY COORDINATORS TOOL

> Does APRS need the exclusive use of a frequency and why?

*YES. THE ESTABLISHED APRS NET IS FOR TRACKING MOBILES. MOBILES TRAVEL. MOBILES CANT POSSIBLY KEEP UP WITH ALL THE PATHS AND FREQEUNCIES AND LINKS OF EXSTING NETWORKS. ALSO THE GPS/TNC/RADIO TRACKING DEVICES ARE SINGLE FUNCTION BOXES. SINGEL FERQUENCY XTAL CONTROL IS THE ONLY COST EFFECTIVE MECHANISM FOR OUTFITTING MOBILES.

* ALTHOUGH APRS SHARES A CHANNEL WELL AS A SOURCE OF DATA, IT DOES NOT LIKE TO SEE THE CHANNEL HOGGED FOR CONNECTED DATA TRANSFERS THAT TIE UP THE CHANNEL FOR LONG DURATION. ANY LONG DURATION USE LIKE THAT WOULD KILL LOTS OF UI FRAMES AND DATA WOULD BE LOST...

> Why does APRS need a nation-wide frequency?

OOPS, SAME AS ABOVE.. SO MOBILES OR EMERGENCY RESPONSE TEAMS CAN MOVE FROM AREA TO AREA TRANSPARENTLY. WE CAN TRAK AN AUTO FROM MAINE TO NORTH CAROLINA (ALMOST) AND FROM GA TO MS. THE AUTO NEVER NEEDS TO STOP, TO CHANGE FREQS, OR TO LOOK UP REPEATER CALLSIGNS, HE JUST DRIVES...

> Pointers to sources of information on APRS, (Web sites, FTP sites, etc.)
> would be appreciated.

INCLUDED WITH ALL COPIES OF APRS IS A README DIRECTORY. LOOK IN THERE FOR THE FOLLOWING FILES:

APRS.DOC
OPS.TXT
UHF-FREQ.TXT
DIGIS.TXT
PROTOCOL.TXT

HOPE THIS HELPS...

From bruninga@nadm.navy.mil Wed Dec 06 15:23:38 1995

Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id PAA08144 for <aprssig@tapr.org>; Wed,
6 Dec 1995 15:23:35 -0600 (CST)

Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id

QAA15083; Wed, 6 Dec 1995 16:23:58 -0500
Date: Wed, 6 Dec 1995 16:23:57 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:4960] Dallas Marathon
In-Reply-To: <951206142522.2060746f@exame2.dseg.ti.com>
Message-ID: <Pine.SUN.3.91.951206161851.13638H-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

REGARDING the marathon in Dallas. The existing map is all you are going to get from the 2,000,000 CD ROM. (more water and boundaries are possible) but no more roads. Your best bet is to send one of your trackers ourd driving with a GPS rate of once every 10 seconds, and either save a track history in his laptop, or pick him up off the air, and save the track history.

Then bring up the dallas map in MAPFIX, use the alt-G command to replay the track history and all of the posits will be plotted on the map. Use the alt-NEW and alt-ADD commands to DRAW a PURPLE (color 13) line over those track history points and you will have an EXCELLEMT route map for your marathon. Sketch any other detail you can think of....

If you really want to have fun. Run APRSdr and put the lead runner on the purple line as an object, and give it a speed of 9 knots. And that object will run the marathon even without a tracker...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

From JAgrelo@aol.com Wed Dec 06 15:25:37 1995
Received: from mail06.mail.aol.com (mail06.mail.aol.com [152.163.172.108]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id PAA08173 for <aprssig@tapr.org>; Wed, 6 Dec 1995 15:25:31 -0600 (CST)
From: JAgrelo@aol.com
Received: by mail06.mail.aol.com (8.6.12/8.6.12) id QAA11075 for aprssig@tapr.org; Wed, 6 Dec 1995 16:24:48 -0500
Date: Wed, 6 Dec 1995 16:24:48 -0500
Message-ID: <951206162444_126779050@mail06.mail.aol.com>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:4958] APRS: Newbie Question

In a message dated 95-12-06 15:39:35 EST, you write:

>I have some real basic questions about APRS (also about Packet Radio). If
>anyone can tackle a few for me, I'd appreciate it. Here we go...

>Q: Where are FAQ files for APRS and Packet Radio?

Download the APRS program from aprssig@tapr.org in the upload section and check out all of the readme files in the program itself, the program is available in Mac or DOS.

>Q: How is APRS pronounced?

A,P,R,S or (long) A'pers sounds like PAPERS or Automatic Packet Reporting System

>Q: Can someone who is not an Amateur radio operator have an APRS setup
>(roaming transmitter and base)?

Yes, but the transmitter is the main concern, are you licenesed to operate on a particular frequency?

>Q: (I picked up the buzzword TNC) How dumb/intelligent are these
>things--what features and costs are there?

TNC's (Terminal Node Controller) are intelligent enough to do the job, and are available as low as around \$129.00.

>Q: What kind of collision detection is used before/during packet
>transmitting is used (if any) ?

The AX.25 radio packet protocol has this built into and is in all TNC's.

>Q: What is the smallest and most portable transmitter configuration
>(Locator/TNC/Radio) ? How long will this configuration last on a set of
>batteries?

Well, this is a very broad banded question, but I will try. The transmitter can be as small as 1.920" x .536" and as big as a house, the preliminary questions should be, how much power is required and desired range. The TNC's are available the size of a cigarette pack. And how long will it last depends on how much power the transmitter is putting out and how often. There are no solid answers until the requirements are detemined first.

>Q: Are there any portable radio's with a built in TNC?

Some.

>Q: What kind of base software is available? Do they run on DOS, Windows or
>..??

APRS in DOS, Mac, and soon Windows.

>Q: Roughly, how many roaming devices are potentially in use? How many bases
>are there?

How many people chew gum, I don't know!

>Q: What are the current limitations of APRS? i.e., maximum units being
>tracked, maximum distance from base (or repeaters), error rate, ...?

There is no limitation to the amount of traffic except, the more there are on frequency the harder it becomes for the TNC to handle it (more possible collisions).

>Q: What is APRS currently being used for? What about the future?

Emergencies, marathons, tracking my wife, dogs, dead cats (I am allergic to them), RC planes, rockets, balloons, cars, boats, bugs (fleas, ticks, ants, grasshoppers, butterflies, birds, golfballs, boogers, etc....)

>Q: When will every vehicle, child, and dog be tracked via APRS ? :-)

Everyone in the world, hmmmmm.

>Thanks for any replies, --Lance

>D.Lance Robinson (lancer@airways.com)

>Office: (707)526-6488 ! /==\ /7 /-----

> Fax: (707)526-5643 <=====! ----(Airways Technology, Inc. (

> Home: (707)823-8227 ! 8 \-----

73 de Joe N200C

Joe Agrelo/N200C

Agrelo Engineering

Ph (518)381-1057

Fx (518)381-1058

E-mail- jagrelo@aol.com

In the Web <http://home.navisoft.com/agrelo/ae.htm>

Designer and Manufacturers of intelligent microprocessor based Doppler
and talking products

Experts in Microchip and Motorola processors

Cruise Missile Coordinates 42 47.427N, 073 56.525W

From bruninga@nadm.navy.mil Wed Dec 06 15:29:17 1995

Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id PAA08220 for <aprssig@tapir.org>; Wed,
6 Dec 1995 15:29:15 -0600 (CST)

Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
QAA15141; Wed, 6 Dec 1995 16:29:38 -0500

Date: Wed, 6 Dec 1995 16:29:38 -0500 (EST)

From: Bob Bruninga <bruninga@nadm.navy.mil>

To: aprssig@tapir.org

Subject: Re: [APRSSIG:4949] Re: 144.390????

In-Reply-To: <30C5DC39@ubmed.buffalo.edu>

Message-ID: <Pine.SUN.3.91.951206162706.13638I-1000000@greatlakes>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 6 Dec 1995, Young, Gregory wrote:

> It's time for ALL to sit down and try to coordinate things a bit! The
> growth of digital has far exceeded the demand for repeaters, manyfold. Look
> at the spectrum allotted for those devices.. take a listen to the activity on

> those, or should I say lack of activity..

APR REPLY: And all of those voice repeaters could be used simultaneously for full duplex long distance 9600 baud data links. 70 channels on 2 meters too. It can be done, is simple, and does NOT impact current voice users. See my 70chnls.2m README FILE...

From alanwc7r@primenet.com Wed Dec 06 15:29:49 1995
Received: from mailhost1.primenet.com (mailhost1.primenet.com [198.68.32.51]) by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id PAA08238 for <aprssig@tapr.org>; Wed, 6 Dec 1995 15:29:47 -0600 (CST)
Received: from usr2.primenet.com (root@usr2.primenet.com [198.68.32.12]) by mailhost1.primenet.com (8.7.1/8.7.1) with ESMTP id OAA23459 for <aprssig@tapr.org>; Wed, 6 Dec 1995 14:29:43 -0700 (MST)
Received: from Primenet.primenet.com (ip209.prc.primenet.com [204.212.56.209]) by usr2.primenet.com (8.7.1/8.7.1) with SMTP id OAA16081; Wed, 6 Dec 1995 14:29:42 -0700 (MST)
Message-Id: <199512062129.OAA16081@usr2.primenet.com>
X-Sender: alanwc7r@mailhost.primenet.com
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Wed, 06 Dec 1995 14:29:43 -0700
To: aprssig@tapr.org, aprssig@tapr.org
From: alanwc7r@primenet.com (Alan Unangst)
Subject: Re: [APRSSIG:4957] TAPR web site

Haven't been able to get in today, at all. looking to download mkmapkke.zip understand that it has some refinements. no answer to the problem, but just to let you know that you are not alone...73...alan, WC7R...//\\

At 01:24 PM 12/6/95 -0600, JAgrelo@aol.com wrote:

>I havn't been able to retrieve the TAPR web site for 2 days now, is anyone
>else having this problem?

>

> 73 de Joe N200C

>-----

>-----

> Joe Agrelo/N200C
> Agrelo Engineering
> Ph (518)381-1057
> Fx (518)381-1058
> E-mail- jagrelo@aol.com

> In the Web <http://home.navisoft.com/agrelo/ae.htm>
> Designer and Manufacturers of intelligent microprocessor based Doppler
> and talking products
> Experts in Microchip and Motorola processors
> Cruise Missile Coordinates 42 47.427N, 073 56.525W

>-----

>-----

>

>

>

From alanwc7r@primenet.com Wed Dec 06 15:41:10 1995
Received: from mailhost1.primenet.com (mailhost1.primenet.com [198.68.32.51]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id PAA08680 for <aprssig@tapir.org>; Wed, 6 Dec 1995 15:40:45 -0600 (CST)
Received: from usr2.primenet.com (root@usr2.primenet.com [198.68.32.12]) by mailhost1.primenet.com (8.7.1/8.7.1) with ESMTP id OAA23717 for <aprssig@tapir.org>; Wed, 6 Dec 1995 14:35:17 -0700 (MST)
Received: from Primenet.primenet.com (ip209.prc.primenet.com [204.212.56.209]) by usr2.primenet.com (8.7.1/8.7.1) with SMTP id OAA17265; Wed, 6 Dec 1995 14:35:15 -0700 (MST)
Message-Id: <199512062135.OAA17265@usr2.primenet.com>
X-Sender: alanwc7r@mailhost.primenet.com
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Wed, 06 Dec 1995 14:35:16 -0700
To: aprssig@tapir.org, aprssig@tapir.org
From: alanwc7r@primenet.com (Alan Unangst)
Subject: Re: [APRSSIG:4958] APRS: Newbie Question

1) Frequently Asked Questions

2) It isn't! it is an anachronism. It stands for Automatic Packet Reporting System

3) NO!

4) Another anachronism...Terminal Node Controller.

5)...I've got an idea....this is taking a lot of time. Try getting an active ham in your area to answer your questions. If you can't find one contact the American Radio Relay League (ARRL). The ARRL has a good www site!

73, and good luck...Alan, WC7R

At 01:27 PM 12/6/95 -0600, Lance Robinson wrote:

>Hello All,

>

>I have some real basic questions about APRS (also about Packet Radio). If anyone can tackle a few for me, I'd appreciate it. Here we go...

>

>

>Q: Where are FAQ files for APRS and Packet Radio?

>

>Q: How is APRS pronounced?

>

>Q: Can someone who is not an Amateur radio operator have an APRS setup (roaming transmitter and base)?

>

>Q: (I picked up the buzzword TNC) How dumb/intelligent are these things--what features and costs are there?

>
>Q: What kind of collision detection is used before/during packet
>transmitting is used (if any) ?
>
>Q: What is the smallest and most portable transmitter configuration
>(Locator/TNC/Radio) ? How long will this configuration last on a set of
>batteries?
>
>Q: Are there any portable radio's with a built in TNC?
>
>Q: What kind of base software is available? Do they run on DOS, Windows or ..??
>
>Q: Roughly, how many roaming devices are potentially in use? How many bases
>are there?
>
>Q: What are the current limitations of APRS? i.e., maximum units being
>tracked, maximum distance from base (or repeaters), error rate, ...?
>
>Q: What is APRS currently being used for? What about the future?
>
>Q: When will every vehicle, child, and dog be tracked via APRS ? :-)
>
>
>Thanks for any replies, --Lance
>
>-----<><
>D.Lance Robinson (lancer@airways.com)
>Office: (707)526-6488 ! /==\ /7 /-----
> Fax: (707)526-5643 <=====! ----(Airways Technology, Inc. (
> Home: (707)823-8227 ! 8 \-----
>
>

From bruninga@nadm.navy.mil Wed Dec 06 16:13:46 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id QAA09726 for <aprssig@tapr.org>; Wed,
6 Dec 1995 16:13:42 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
RAA15925; Wed, 6 Dec 1995 17:14:04 -0500
Date: Wed, 6 Dec 1995 17:14:03 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapr.org
Subject: Train trips ETC...
In-Reply-To: <9512062041.AA05680@gvgadg.gvg.tek.com>
Message-ID: <Pine.SUN.3.91.951206171223.13638K-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

One way to communicate your travel plans to all APRS users is to enter
all the way points into an APRS track history file. You can then post
that message here as a text message, everyone can replay it, and they
will see ALL your waypoints on their MAPS....

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

From willf@rrgroup.com Wed Dec 06 16:47:59 1995

Received: from rrgroup3 (rrgroup3.rrgroup.com [204.95.173.65]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id QAA10829 for <aprssig@tapir.org>; Wed, 6 Dec 1995 16:47:47 -0600 (CST)

Received: by rrgroup3 with Microsoft Mail

id <01BAC3FA.30692F30@rrgroup3>; Wed, 6 Dec 1995 16:45:02 -0600

Message-ID:

<c=US%a=rrgroup%p=RRSystemsGroup%l=RRGROUP3951206164500GL005C00@rrgroup3>

From: Willson Flor <willf@rrgroup.com>

To: "'aprssig@tapir.org'" <aprssig@tapir.org>

Subject: UHF Backbone, was RE: Best band?

Date: Wed, 6 Dec 1995 16:44:58 -0600

MIME-Version: 1.0

Content-Type: multipart/mixed; boundary="-----=_NextPart_000_01BAC3FA.307BA5C0"

-----=_NextPart_000_01BAC3FA.307BA5C0

Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: quoted-printable

You wrote:

From: Paul Moller[SMTP:Paul_Moller@csg.mot.com]

Sent: Wednesday, December 06, 1995 11:25AM

To: aprssig@tapir.org

Subject: [APRSSIG:4954] Best band?

. I would recommend that APRS stay on 2m for mobile and related uses. (I= will
. stay out of the 145.790 freq. discussion). But, is there a need for a
. backbone type link between major metropolitan areas running 9k6 baud o= n UHF.
. I say yes! Its only a matter of time until the single 1200 baud channe= l is
. congested. (Gee sounds just like 2m packet was like 10 years ago, befo= re the
. addition of other channels.) Is there a plan to incorporate multiple t= nc's
. and new path names into APRS to handle the desire to show up in multip= le
. cities without going to hf? In Chicago I would like to see the WX in
. Milwaukee, and St. Louis, and Greenbay and etc, but just listen to 30 = m
. today, it's getting busy! Just a thought.
.=09
.=09

Hear, hear!! a great idea! I've been an advocate of this idea for some t= ime, but haven't had much luck in interesting others. Are there others a= round who are interested?

. Paul, WD9ABE
. Maybe closer to Great Lakes NTC than anybody.

-Will KB9JTT
New Berlin, Wisconsin
Approx. 7 miles from the Great Lakes (but farther from GLNTC)

----- =_NextPart_000_01BAC3FA.307BA5C0
Content-Type: application/ms-tnef
Content-Transfer-Encoding: base64

eJ8+IgQWAQaQCAAEAAAAAAAAABAAEAAQeQBgAIAAAAA5AQAAAAAADoAAEFgAMADgAAAMsHDAAGABAA
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HxYMgrAgUGF1D7EG8GwEkEBbU01UUDokU19BJKRAY3NnLgRgdPIuBaBtXSA/IU0GYAIwKyJ/I4tX
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AgEUNAEEAAAAQAAAAVJShwCl/EBu1hwgAKyo1F9Y6

----- =_NextPart_000_01BAC3FA.307BA5C0--

From kc5ejk@onramp.net Wed Dec 06 16:49:10 1995
Received: from mailhost.onramp.net (mailhost.onramp.net [199.1.11.3]) by

sys1.tapir.org (8.7.2/8.7.2) with SMTP id QAA11160 for <aprssig@tapir.org>; Wed, 6 Dec 1995 16:49:06 -0600 (CST)
Received: from [199.1.11.125] (dal29.onramp.net [199.1.11.129]) by mailhost.onramp.net (8.6.12/8.6.5) with SMTP id QAA07956 for <aprssig@tapir.org>; Wed, 6 Dec 1995 16:48:59 -0600
Message-Id: <v02130501acebc8a322a3@[199.1.11.125]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Wed, 6 Dec 1995 16:49:34 -0600
To: aprssig@tapir.org
From: kc5ejk@onramp.net (Robert Winingham)
Subject: Re: [APRSSIG:4960] Dallas Marathon

>The Dallas White Rock Marathon will be held on this coming Sunday, December >10.

>If there is anyone out there who has access to the 2,000,000:1 data for

I have the 2,000,000 to 1 CD-ROM and Keith Sproul is sending street level 100,000 - 1 maps for MacAPRS this week.

The 2,000,000 level maps are too crude. I can read PC aprs maps but can not make them.

Most of the Computer APRS system will be PC based.

Looks like we need PC maps of a 3 mile radius centered on
Lat 32d 49m 30s
Lon 096d 45m 30m grid Em12ot or near Zipcode 75205.

I plan to try making a TIFF of GIF file of the supplied course map and a PICT of the Delorma Street Atlas 2.0 then run the route with GPS input to the APRS Mac portable and then try to align the maps.

Bill KE4EER Is good at 2 mile PC maps (how about it Bill ??)

We will report back to the sig our results.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

From rwf@mindspring.com Wed Dec 06 18:52:54 1995
Received: from borg.mindspring.com (root@borg.mindspring.com [204.180.128.14]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id SAA16485 for <aprssig@tapir.org>; Wed, 6 Dec 1995 18:52:52 -0600 (CST)
Received: from rwf.mindspring.com [168.121.44.154] by borg.mindspring.com with SMTP id TAA06196 for <aprssig@tapir.org>; Wed, 6 Dec 1995 19:52:45 -0500
Date: Wed, 6 Dec 1995 19:52:45 -0500
Message-Id: <199512070052.TAA06196@borg.mindspring.com>
X-Sender: rwf@mindspring.com
X-Mailer: Windows Eudora Version 2.1.1

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: rwf <rwf@mindspring.com>
Subject: Re: [APRSSIG:4963] Re: Dallas Marathon

I will be at the marathon in Dallas, helping out. I was also looking for someone with 2,000,000:1 data for a map, but since Bob says there is no further data- he must have made the existing one with the available data. I don't remember the Dallas maps looking like the sample TN map or any of my GA maps, though. Maybe it is just the water and boundaries that make it look better.

Claude- I'll be glad to do the update to the existing map if you'll get me the gps track. Put aprs on a laptop with no tnc enabled, set the pos rast to every 10 seconds as Bob says and then drive. Send me the tk?????.hst file you save with the F S command. That's how I update a lot of maps.

Ralph
N4NEQ-Atlanta

At 03:40 PM 12/6/95 -0600, you wrote:

>REGARDING the marathon in Dallas. The existing map is all you are going
>to get from the 2,000,000 CD ROM. (more water and boundaries are
>possible) but no more roads. Your best bet is to send one of your
>trackers ourd driving with a GPS rate of once every 10 seconds, and
>either save a track history in his laptop, or pick him up off the air,
>and save the track history.

>

>Then bring up the dallas map in MAPFIX, use the alt-G command to replay
>the track history and all of the posits will be plotted on the map. Use
>the alt-NEW and alt-ADD commands to DRAW a PURPLE (color 13) line over
>those track history points and you will have an EXCELLEMT route map for
>your marathon. Sketch any other detail you can think of....

>

>If you really want to have fun. Run APRSdr and put the lead runner on the
>purple line as an object, and give it a speed of 9 knots. And that
>object will run the marathon even without a tracker...

>

>DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

>

>

From ke4eer@ro.com Wed Dec 06 18:53:45 1995
Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tapr.org
(8.7.2/8.7.2) with SMTP id SAA16509 for <aprssig@tapr.org>; Wed, 6 Dec 1995
18:53:43 -0600 (CST)
Received: from ts2p10.ro.com (ts2p10.ro.com [205.216.92.60]) by sh1.ro.com
(8.6.9/8.6.9) with SMTP id TAA09353 for <aprssig@tapr.org>; Wed, 6 Dec 1995
19:40:56 -0600

Message-Id: <199512070140.TAA09353@sh1.ro.com>
X-Mailer: InternetWorks Mail and News 1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Wed, 06 Dec 1995 18:34:29
From: ke4eer@ro.com (William Nolle)
To: aprssig@tapr.org
Subject: Re: [APRSSIG:4966] Re: TAPR web site

I have downloaded from it last night and got the update, it's been Up/Dn the last few days tough.

Bill KE4EER

>Haven't been able to get in today, at all. looking to download mkmapkke.zip
>understand that it has some refinements. no answer to the problem, but just
>to let you know that you are not alone...73...alan, WC7R...//\\
>

>At 01:24 PM 12/6/95 -0600, JAgrelo@aol.com wrote:

>>I havn't been able to retrieve the TAPR web site for 2 days now, is anyone
>>else having this problem?

>>

>> 73 de Joe N200C

>>-----

>>-----

>> Joe Agrelo/N200C
>> Agrelo Engineering
>> Ph (518)381-1057
>> Fx (518)381-1058
>> E-mail- jagrelo@aol.com

>> In the Web <http://home.navisoft.com/agrelo/ae.htm>
>> Designer and Manufacturers of intelligent microprocessor based Doppler
>> and talking products
>> Experts in Microchip and Motorola processors
>> Cruise Missile Coordinates 42 47.427N, 073 56.525W

>>-----

>>-----

>>

>>

>>

>

From ke4eer@ro.com Wed Dec 06 20:15:37 1995

Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id UAA19307 for <aprssig@tapr.org>; Wed, 6 Dec 1995 20:15:34 -0600 (CST)

Received: from ts1p12.ro.com (ts1p12.ro.com [205.216.92.32]) by sh1.ro.com (8.6.9/8.6.9) with SMTP id VAA04384 for <aprssig@tapr.org>; Wed, 6 Dec 1995 21:21:48 -0600

Message-Id: <199512070321.VAA04384@sh1.ro.com>

X-Mailer: InternetWorks Mail and News 1.1

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"
Date: Wed, 06 Dec 1995 20:15:04
From: ke4eer@ro.com (William Nolle)
To: aprssig@tapr.org
Subject: Re: [APRSSIG:4971] Re: Dallas Marathon

Hnag loose guys just downloaded the file for Dallas from USGS biy they do everything BIG in Texas, i have never seen so many files for one city WOW. So hang in there i'm working on it but will only do the roads no water. I still don't know if you wanted a 3 Mile map form center or overall. If from center that may be to large to make in one map. Back to the unzipping and blocking.

Bill KE4EER

>I will be at the marathon in Dallas, helping out. I was also looking for
>someone with 2,000,000:1 data for a map, but since Bob says there is no
>further data- he must have made the existing one with the available data. I
>don't remember the Dallas maps looking like the sample TN map or any of my
>GA maps, though. Maybe it is just the water and boundaries that make it
>look better.

>
>Claude- I'll be glad to do the update to the existing map if you'll get me
>the gps track. Put aprs on a laptop with no tnc enabled, set the pos rast
>to every 10 seconds as Bob says and then drive. Send me the tk?????.hst
>file you save with the F S command. That's how I update a lot of maps.

>
>Ralph
>N4NEQ-Atlanta

>
>
>
>
>
>At 03:40 PM 12/6/95 -0600, you wrote:

>>REGARDING the marathon in Dallas. The existing map is all you are going
>>to get from the 2,000,000 CD ROM. (more water and boundaries are
>>possible) but no more roads. Your best bet is to send one of your
>>trackers ourd driving with a GPS rate of once every 10 seconds, and
>>either save a track history in his laptop, or pick him up off the air,
>>and save the track history.

>>
>>Then bring up the dallas map in MAPFIX, use the alt-G command to replay
>>the track history and all of the posits will be plotted on the map. Use
>>the alt-NEW and alt-ADD commands to DRAW a PURPLE (color 13) line over
>>those track history points and you will have an EXCELLEMT route map for
>>your marathon. Sketch any other detail you can think of....

>>
>>If you really want to have fun. Run APRSdr and put the lead runner on the
>>purple line as an object, and give it a speed of 9 knots. And that
>>object will run the marathon even without a tracker...

>>
>>DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

>>
>>

>

From amirault@laraby.tiac.net Wed Dec 06 20:16:39 1995
Received: from laraby.tiac.net (root@laraby.tiac.net [199.0.65.80]) by
sys1.tapir.org (8.7.2/8.7.2) with SMTP id UAA19353 for <aprssig@tapir.org>; Wed, 6
Dec 1995 20:16:35 -0600 (CST)
Received: (from amirault@localhost) by laraby.tiac.net (8.6.9/8.6.6.Beta9) id
VAA00863; Wed, 6 Dec 1995 21:16:24 -0500
Date: Wed, 6 Dec 1995 21:16:24 -0500 (EST)
From: Richard Amirault <amirault@laraby.tiac.net>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:4962] APRS Information Needed (Answers)
In-Reply-To: <Pine.SUN.3.91.951206153851.13638F-1000000@greatlakes>
Message-ID: <Pine.BSF.3.91.951206211236.169C-1000000@laraby.tiac.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 6 Dec 1995, Bob Bruninga wrote:

> FOLLOWING REPLYs ARE CAPATIALIZED FOR RECOGNITION.
>
> > Chris Petersen, INTERNET:102261.1225@compuserve.com ASKED:
(snip)
> > Does APRS need the exclusive use of a frequency and why?
> *YES. THE ESTABLISHED APRS NET IS FOR TRACKING MOBILEs. MOBILEs TRAVEL.

Whoa! That's news to me. Guess I'll have to trash my WX station, and give
up any thought of DF use! ;-)

Richard Amirault N1JDU Boston, Massachusetts USA
amirault@tiac.net "Go Fly A Kite"

From wd5ivd@tapir.org Wed Dec 06 20:31:32 1995
Received: (from wd5ivd@localhost) by sys1.tapir.org (8.7.2/8.7.2) id UAA20014 for
aprssig@tapir.org; Wed, 6 Dec 1995 20:31:31 -0600 (CST)
From: Greg Jones <wd5ivd@tapir.org>
Message-Id: <199512070231.UAA20014@sys1.tapir.org>
Subject: Re: [APRSSIG:4972] Re: TAPR web site
To: aprssig@tapir.org
Date: Wed, 6 Dec 1995 20:31:31 -0600 (CST)
In-Reply-To: <199512070140.TAA09353@sh1.ro.com> from "William Nolle" at Dec 6, 95
07:03:58 pm
X-Mailer: ELM [version 2.4 PL24]
Content-Type: text

TAPR.ORG has been working fine. The problem was with a router at the San
Antonio provider. It should be fixed now. We are having some problems with
interactive sessions -- but this should be fixed soon with an additional
16Megs of memory.

Just remember Internet does have problems from time to time -- it is not
always a system you are trying to get to. As more and more people get on --

there are becoming periods of slow access depending on where you are located on the network and where you are trying to go or get things.

Cheers - Greg

```
>
> I have downloaded from it last night and got the update, it's been Up/Dn
> the last few days tough.
>
> Bill KE4EER
> -----
> >Haven't been able to get in today, at all. looking to download mkmapkke.zip
> >understand that it has some refinements. no answer to the problem, but just
> >to let you know that you are not alone...73...alan, WC7R..//\\
> >
> >At 01:24 PM 12/6/95 -0600, JAgrelo@aol.com wrote:
> >>I havn't been able to retrieve the TAPR web site for 2 days now, is anyone
> >>else having this problem?
> >>
> >> 73 de Joe N200C
> >>-----
> >>-----
> >>
> >> Joe Agrelo/N200C
> >> Agrelo Engineering
> >> Ph (518)381-1057
> >> Fx (518)381-1058
> >> E-mail- jagrelo@aol.com
> >> In the Web http://home.navisoft.com/agrelo/ae.htm
> >> Designer and Manufacturers of intelligent microprocessor based Doppler
> >> and talking products
> >> Experts in Microchip and Motorola processors
> >> Cruise Missile Coordinates 42 47.427N, 073 56.525W
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From n2czf@gate.net Wed Dec 06 21:19:40 1995

Received: from mail1.gate.net (mail1.gate.net [199.227.0.18]) by sys1.tappr.org (8.7.2/8.7.2) with SMTP id VAA21670 for <aprssig@tappr.org>; Wed, 6 Dec 1995 21:19:36 -0600 (CST)

From: n2czf@gate.net

Received: from tequesta.gate.net (root@tequesta.gate.net [199.227.0.12]) by mail1.gate.net (8.6.12/8.6.9) with ESMTP id WAA58600 for <aprssig@tappr.org>; Wed, 6 Dec 1995 22:20:43 -0500

Received: from 199.227.125.163 (wpbfl2-35.gate.net [199.227.125.163]) by tequesta.gate.net (8.6.9/8.6.9) with SMTP id WAA26135 for <aprssig@tappr.org>; Wed, 6 Dec 1995 22:19:42 -0500

Date: Wed, 6 Dec 1995 22:19:42 -0500
Message-Id: <199512070319.WAA26135@tequesta.gate.net>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Subject: Re: [APRSSIG:4971] Re: Dallas Marathon
To: aprssig@tapr.org
In-Reply-To: <199512070052.TAA06196@borg.mindspring.com>
X-Mailer: SPRY Mail Version: 04.00.06.17

If you are going to save the "drive" as a .HST file on a laptop make SURE that APRS is saving the LOG file!! I made this mistake recently forgetting that APRS had some changes since I last used a LAPTOP/APRS mobile setup. On your Control screen you will see LOGS (or is it LOG?) in a window, make sure it is uppercase.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

From quarry@q.continuum.net Wed Dec 06 22:02:51 1995
Received: from q.continuum.net (q.continuum.net [199.0.52.2]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id WAA22650 for <aprssig@tapr.org>; Wed, 6 Dec 1995 22:02:49 -0600 (CST)
Received: from [199.0.52.53] (cd-4.continuum.net [199.0.52.53]) by q.continuum.net (8.6.11/8.6.9) with SMTP id XAA10392 for <aprssig@tapr.org>; Wed, 6 Dec 1995 23:32:10 -0500
Message-Id: <v01530504acec12648a80@[199.0.52.53]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Wed, 6 Dec 1995 23:02:45 -0500
To: aprssig@tapr.org
From: quarry@q.continuum.net (Chip)
Subject: Re: [APRSSIG:4921] Re: CHANGE 145.79?!

At 13:32 12/5/95, Steve Dimse wrote:

> I think everyone is very much over-reacting to the present situation.

Agreed.

> 1. 145.800 is one of three freqs listed.

>

> 2. Even if it were the only one, there would be QRM to 145.79 for a few
> minutes at a time, several times a day. Not a 24 hr a day problem for us
> by any means.

>

> 3. The QRM from APRS to MIR will be far greater, since APRS consists of
> automated stations which will not be able to be shut down during a pass.
> I doubt they will continue using this freq over the US once they hear
> what it sounds like up there.

>

> My opinion, for the little it is worth, it to leave things were they are.
> If we move, next week someone may try to put something on 145.78!

I don't see what all the hub bub is about anyway ... we operate packet stations on 145.01, 145.03, 145.05, 145.07, and 145.09 all with the same spacing as we are discussing here ... and they manage with no interference to each other despite close proximity ... forgive me for my daftness, but perhaps someone should explain it to me one more time.

In the meantime, if we are to change frequencies (which is fine for me since I'm not crystal bound) we ought to be both cautious and quick about selection.

1. It won't be easy because many people have spent a lot of time doing what they are doing where they are doing it and people like to resist change.
2. You can't please everyone all the time. (In other words: no matter what frequency you choose there will be someone who has a "major" problem with it.)
3. If someone has to move there may be reasons why it is better for us then them. While it is always easier to point to the other fella, there are schools and people a lot less resources then we have who may be locked in to their frequency. How many of us are really locked in to that frequency anyway? A handful?
4. Perhaps another compromise can be mediated it moving is not reasonable for either party. Perhaps, for example, we could 'shut down' or minimize the net for the duration of a SAREX mission.

Just food for thought, flames are neither required nor desired.

Chip Griffin - President of Thames River Apple Users Group (TRAUG)
BBS System Operator of The Quarry (860-889-6427)
- eMail to: quarry@q.continuum.net (alternate: emmet2@aol.com)
- FidoNet to: Chip@1:320/301.0 or .1
my home page: <http://q.continuum.net/~quarry/>
TRAUG home page: <http://q.continuum.net/~quarry/TRAUG.html>

From Turnstone@aol.com Wed Dec 06 23:10:15 1995
Received: from emout04.mail.aol.com (emout04.mail.aol.com [198.81.10.12]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id XAA24877 for <aprssig@tapir.org>; Wed, 6 Dec 1995 23:10:12 -0600 (CST)
From: Turnstone@aol.com
Received: by emout04.mail.aol.com (8.6.12/8.6.12) id AAA26089 for aprssig@tapir.org; Thu, 7 Dec 1995 00:09:32 -0500
Date: Thu, 7 Dec 1995 00:09:32 -0500
Message-ID: <951207000745_127165070@emout04.mail.aol.com>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:4937] Re: Any demand for rail history APRS maps?

Ken,
I'm interested in the railroad info, too. Glad to know it's available.
- Tom KC7AGK Salem, OR (turnstone@aol.com)

From dwetzel@acs.uswest.com Wed Dec 06 23:47:54 1995
Received: from uswat.advtech.uswest.com (uswat.advtech.uswest.com [130.13.16.1])
by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id XAA25641 for <aprssig@tapir.org>; Wed,
6 Dec 1995 23:47:52 -0600 (CST)
From: dwetzel@acs.uswest.com
Received: from easthub ([151.117.26.86]) by uswat.advtech.uswest.com (8.7.1/8.7.1)
with SMTP id WAA17157 for <aprssig@tapir.org>; Wed, 6 Dec 1995 22:47:49 -0700 (MST)
Received: by easthub.mnet.uswest.com (M-Net Hub.950111)
Received: from acmspgw1.mnet.uswest.com by acs.uswest.com (5.x/SMI-SVR4)
id AA16589; Wed, 6 Dec 1995 23:47:46 -0600
Received: from ccMail by acmspgw1.mnet.uswest.com
(IMA Internet Exchange 1.04b beta) id 0c676a00; Wed, 6 Dec 95 23:07:44 -0600
Mime-Version: 1.0
Date: Wed, 6 Dec 1995 22:38:03 -0600
Message-Id: <0c676a00@acmspgw1.mnet.uswest.com>
Subject: Re: [APRSSIG:4961] APRS Train Trip
To: aprssig@tapir.org
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Description: cc:Mail note part

Randy, you will find virtually all APRS activity in the Salt Lake City area on 145.15. Although we are working on a 145.79 coordination (current sig discussions notwithstanding!), all of our stations are active on .15 today. You'll see "genuine" APRSers KC7CO (-1 and -2), KB7DD, AA7AA (maybe), N7YOD, and relays from 30m if KB7DD has the GATE up (which he does most weekends). There are a number of RELAYs about, and I have a WIDE up on the south end of the Salt Lake valley. I think we had a discussion about this several weeks ago - our high altitude WIDE is still waiting for coordination, but will be dynamite when it comes - 9000 feet in elevation and probably 75 - 100 mile coverage each way, north, south, and west.

----- Reply Separator -----
Subject: [APRSSIG:4961] APRS Train Trip
Author: aprssig@tapir.org at Internet-Mail
Date: 12/6/95 2:58 PM

Randy's Great American APRS Train Trip

or

My Wife Thinks There Is Too Much Technology On This Trip.

Two weeks from today, Wed Dec 20 to Sat Dec 23, my wife and I will be on the AMTRAK train from Sacramento Ca. to Rochester NY for Christmas.

The trip basically is from:

Sacramento, Reno, Salt Lake City, Denver, Lincoln, Omaha, Chicago, Toledo, Cleveland, Buffalo, and Rochester.

I'll have along my goodie bag of toys including; PC Laptop, FT-51R & FT470 HTs, Pico Packet TNC, GPS-45 w/active ant, Scanner for rail monitoring and batteries. I'll also have along some reading material, Walkman with AM/FM radio, camcorder, clean underwear, Swiss Army knife, and a bottle of Scotch. We will have a Deluxe sleeper compartment to Chicago, then in a much smaller sleeper the last night going into Rochester. The Deluxe sleeper room has power available.

I plan on having my APRS system up and running along the trip. I need information about areas along the trip that have APRS activity and the local APRS frequency. Otherwise, I'll transmit on 145.79 MHz. I'll try and keep it running as much as I can. I don't know if I'll have room to keep the station running at night, but be on the lookout for it. The TNC has a PBBS, so leave me a message!

Please pass along your local APRS frequency. I'll be using the RELAY,WIDE,WIDE path, unless different for local areas. Point your beams at the train track!!

I'll try to also monitor the 2M FM railfan frequency of 146.49 MHz along the way.

I have found the lats and longs for each stop (Internet is great!) and will enter all that data into the GPS-45 as waypoints.

Below is the rail timetable, so that you can be on the lookout for me. I don't know how close AMTRAK keeps to schedule (if I get there on the right day that is probably doing good!). Also below is the lats and longs for the stops. If you have a better posit for the train station, please pass it along.

If anyone has any suggestions that will improve my operation, please pass them along.

Busy packing, planning, and testing,

Randy
WA2AGE
randyh@gvgadg.gvg.tek.com

5	Train Number	6
SuTuWeFr	Days of Operation	MoWeFrSa
	to/from Oakland	
Read Down		Read Up
Miles	Station	Symbol
SuTuWeFr departs		arrives WeFrSuMo

3:00p	0	dp	Chicago, IL.	ar	4:30p
3:35p	24		Naperville, IL.		3:15p
4:45p	104		Princeton, IL.		2:00p
5:48p	162		Galesburg, IL.		1:07p
6:36p	205		Burlington, IA.		12:05p
7:09p	233		Mt. Pleasant, IA.		11:30a
7:54p	280		Ottumwa, IA.		10:45a
9:10p	360		Osceola, IA.		9:24a
9:41p	393		Creston, IA.		8:49a
11:37p	501	ar	OMAHA, NE.	dp	7:00a
11:59p		dp	OMAHA, NE.	ar	6:35a
MoWeThSa					
1:07a	555	ar	LINCOLN, NE.	dp	5:30a
1:17a		dp	LINCOLN, NE.	ar	5:20a
2:50a	652		Hastings, NE.		3:47a
3:39a	706		Holdrege, NE.		2:55a
4:58a	784		McCook, NE. (CT)		1:48a
WeFrSuMo					
6:23a	960		Ft. Morgan, CO. (MT)		10:15p
8:25a	1037	ar	DENVER, CO.	dp	9:00p
9:10a		dp	DENVER, CO. (bus Colo. Springs)	ar	7:50p
11:05a	1100		Winter Park, Fraser CO.		5:05p
11:35a	1113		Granby, CO.		4:40p
2:50p	1222		Glenwood Springs, CO.		1:30p
4:55p	1311		Grand Junction, CO.		11:45a
6:10p	1390		Thompson, UT. (flag stop)		9:45a
8:00p	1488		Helper, UT.		8:10a
10:05p	1564		Provo, UT.		6:05a
11:36p	1608	ar	SALT LAKE CITY, UT.(MT)	dp	5:15a
TuThFrSu					
12:35a		dp		ar	4:08a
TuThSaSu					
3:48a	1871		Elko, NV. (PT)		10:18p
5:55a	2009		Winnemucca, NV.		8:13p
7:30a	2062		Lovelock, NV.		7:05p
9:15a	2180	ar	SPARKS, NV.	dp	5:35p
9:30a		dp		ar	5:20p
9:41a	2184		Reno, NV.		5:00p
10:34a	2216		Truckee, CA.(Lake Tahoe)		4:03p
12:42p	2284		Colfax, CA.		1:52p
1:48p	2319		Roseville, CA.		1:02p
2:40p	2337		Sacramento, CA.		12:35p

48	Train Number	49
Daily	Station	Daily
(read down)		(read up)
Amtrak Thruway Bus Connection--Madison WI/Chicago IL		
Schedule below		

8:00p	0	dp	Chicago, IL	CT	ar	12:28p
8:29p	16		Hammond-Whiting, IN	CT		11:34p
10:35p	84		South Bend, IN	EST		11:31a
11:02p	101		Elkhart, IN	EST		11:06a
11:50p	156		Waterloo, IN	EST		10:20a

12:12a	181	Bryan, OH	ET	9:55a
1:16a	234	ar Toledo, OH	dp	9:04a
1:34a		dp Toledo, OH	ar	8:39a
2:24a	281	Sandusky, OH		7:43a
2:58a	316	Elyria, OH (Lorain)		7:09a
3:36a	341	ar Cleveland, OH		6:36a
3:46a		dp Cleveland, OH		6:26a
5:14a	436	Erie, PA		4:53a
6:47a	528	ar Buffalo, NY (Depew Sta)	dp	3:21a
7:17a		dp Buffalo, NY (Depew Sta)	ar	2:51a
8:15a	589	Rochester, NY		1:52a

SACRAMENTO	CA	38 35 5 N	121 29 23 W
ROSEVILLE CA	38 44 52 N	121 17 6 W	
COLFAX	CA	39 5 59 N	120 57 10 W
TRUCKEE	CA		
RENO	NV	39 31 22 N	119 48 25 W
SPARKS	NV	39 32 16 N	119 45 7 W
LOVELOCK NV	40 10 48 N	118 28 22 W	
WINNEMUCCA	NV	40 58 22 N	117 43 55 W
ELKO	NV	40 49 48 N	115 45 36 W
SALT LAKE UT	40 32 31 N	111 53 49 W	PROVO
	UT 40 13 58 N	111 39 25 W	
HELPER	UT	39 41 16 N	110 51 10 W
THOMPSON UT	38 58 26 N	109 43 4 W	
GRAND JUNCTION	CO	39 4 4 N	108 33 0 W
GLENWOOD SPRINGSCO		39 32 34 N	107 19 19 W
GRANBY	CO	40 4 58 N	105 56 24 W
WINTER PARK	CO	40 4 30 N	106 2 27 W
DENVER	CO	39 44 24 N	104 59 16 W
FORT MORGAN	CO	40 15 10 N	103 48 0 W
MCCOOK	NE	40 12 18 N	100 37 37 W
HOLDREGE NE	40 26 23 N	99 22 19 W	
HASTINGS NE	40 35 24 N	98 23 6 W	
LINCOLN	NE	40 49 22 N	96 41 6 W
OMAHO	NE	41 16 58 N	96 0 29 W
CRESTON	IA	41 3 28 N	94 21 43 W
OSCEOLA	IA	41 2 5 N	93 46 2 W
OTTUMWA	IA	41 1 12 N	92 24 37 W
MT PLEASANT	IA	40 57 28 N	91 33 25 W
BURLINGTON	IA	40 48 36 N	91 13 58 W
GALESBURG IL	40 56 52 N	90 22 1 W	
PRINCETON IL	41 22 30 N	89 28 6 W	
NAPERVILLE	IL	41 46 4 N	88 7 38 W
CHICAGO	IL	41 52 58 N	87 37 30 W
HAMMOND	IL	39 47 41 N	88 35 31 W
SOUTH BEND	IN	41 40 29 N	86 15 7 W
ELKHART	IA	41 47 31 N	93 31 23 W
BRYAN	OH	41 28 22 N	84 33 7 W
TOLEDO	OH	41 35 27 N	83 31 42 W
SANDUSKY OH	41 26 52 N	82 42 26 W	
ELYRIA	OH	41 21 54 N	82 6 36 W

CLEVELAND OH 41 29 49 N 81 41 59 W
ERIE PA 42 6 46 N 80 4 23 W
BUFFALO NY 42 53 13 N 78 52 30 W
ROCHESTER NY 43 9 28 N 77 36 29 W

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-----  
|                               |  
|           My opinions are my own.           |  
|                               |  
|           My computer is multimedia deprived.           |  
|                               |  
| Randy Hall WA2AGE  randyh@gvgadg.gvg.tek.com  Grass Valley Group |  
|                               |  
-----
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From n8mwz@alpha.wcoil.com Wed Dec 06 23:56:11 1995
Received: from alpha.wcoil.com ([205.133.95.1]) by sys1.tapr.org (8.7.2/8.7.2)
with SMTP id XAA26513 for <aprssig@tapr.org>; Wed, 6 Dec 1995 23:56:09 -0600 (CST)
Received: from term1-3.wcoil.com (term1-3.wcoil.com [205.133.95.103]) by
alpha.wcoil.com (8.6.9/8.6.9) with SMTP id AAA02881 for <aprssig@tapr.org>; Thu, 7
Dec 1995 00:57:30 -0500
Date: Thu, 7 Dec 1995 00:57:30 -0500
Message-Id: <199512070557.AAA02881@alpha.wcoil.com>
X-Sender: n8mwz@alpha.wcoil.com
X-Mailer: Windows Eudora Version 1.4.3
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: n8mwz@alpha.wcoil.com (Bob Hartman)
Subject: APRS symbols

WB2NGZ@AOL.com said:

>P.S.: I am still waiting for WB4APR to include an ICBM symbol in APRS that
>explodes on impact so that our Daytona Beach "war games" will be more
>realistic...He He.

That brings up a question.. Are they now, or will it be possible in the
future to
customize the symbols used in APRS? It might be useful for special events
or just horsing around. (what's that I see, a miniature sleigh leaving the
North Pole
on a DR path to my QTH??.. grin)

From barrettd@crpl.cedar-rapids.lib.ia.us Thu Dec 07 00:50:22 1995
Received: from CRPL.CEDAR-RAPIDS.LIB.IA.US (crpl.cedar-rapids.lib.ia.us
[198.134.138.1]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id AAA02950 for
<aprssig@tapr.org>; Thu, 7 Dec 1995 00:50:20 -0600 (CST)
From: barrettd@crpl.cedar-rapids.lib.ia.us

I just uploaded the Dallas Marathon maps. They total 26 maps in all to cover that area (I HOPE). I did not include any waterways or streams since that area is so populated that i had a hard time making .75 Mile center maps. I had attempted several 1 mile maps but the software choked on them. It also includes a special maplist called MAPLIST.MAR to cover just that area!. The grid is 5 maps vertical and 6 maps horizontal, so i hope that enough to cover the area you guys need. If not i maybe able to add a row if needed. Gosh that's a BIG city, i had to download 34 Meg unzipped from USGS. They are on Tapr in the upload directory since it looks like we are not allowed to upload into the PCMaps directory (At least i couldn't).

Bill KE4EER
ke4eer@ro.com

From ke4eer@ro.com Thu Dec 07 01:23:19 1995
Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id BAA03849 for <aprrsig@tapir.org>; Thu, 7 Dec 1995 01:23:17 -0600 (CST)
Received: from ts2p10.ro.com (ts2p10.ro.com [205.216.92.60]) by sh1.ro.com (8.6.9/8.6.9) with SMTP id CAA25105 for <aprrsig@tapir.org>; Thu, 7 Dec 1995 02:20:21 -0600
Message-Id: <199512070820.CAA25105@sh1.ro.com>
X-Mailer: InternetWorks Mail and News 1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Thu, 07 Dec 1995 01:13:52
From: ke4eer@ro.com (William Nolle)
To: aprrsig@tapir.org
Subject: APRS Maps

Bob would it be to much to ask if there's a way to let the F3 key go smaller then the 1 mile range. When doing the maps for that Dallas marathon and wanting to zoom in and show the map borders (Specially the + centers they don't show untill way to late. That works great as long as the maps are 1 mile or more. Now with all the detailed maps that should be addressed i think.

Bill KE4EER
ke4eer@ro.com

From n2czf@gate.net Thu Dec 07 01:52:34 1995
Received: from mail1.gate.net (mail1.gate.net [199.227.0.18]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id BAA04691 for <aprrsig@tapir.org>; Thu, 7 Dec 1995 01:52:32 -0600 (CST)
From: n2czf@gate.net
Received: from tequesta.gate.net (root@tequesta.gate.net [199.227.0.12]) by mail1.gate.net (8.6.12/8.6.9) with ESMTP id CAA41882 for <aprrsig@tapir.org>; Thu, 7 Dec 1995 02:53:39 -0500
Received: from 199.227.125.148 (wpbf12-20.gate.net [199.227.125.148]) by tequesta.gate.net (8.6.9/8.6.9) with SMTP id SAA41721 for <aprrsig@tapir.org>; Wed, 6 Dec 1995 18:25:19 -0500
Date: Wed, 6 Dec 1995 18:25:19 -0500

Message-Id: <199512062325.SAA41721@tequesta.gate.net>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Subject: Re: [APRSSIG:4946] Mail Bumps
To: aprssig@tapr.org
X-Mailer: SPRY Mail Version: 04.00.06.17

Greg, I tend to agree with your thoughts on Mail Bumps. Seems that the only time I get dropped is AFTER I send a message to the APRSSIG. If I stay quiet I do not get bumped but if I make a few postings I get dropped.

Thanks for working of the problem!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

From hammock@tis.telos.com Thu Dec 07 07:26:56 1995
Received: from tis.telos.com (tis.telos.com [198.116.7.53]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id HAA13842 for <aprssig@tapr.org>; Thu, 7 Dec 1995 07:26:53 -0600 (CST)
Received: (hammock@localhost) by tis.telos.com (8.6.12/8.6.4) id IAA08231; Thu, 7 Dec 1995 08:28:40 -0500
Date: Thu, 7 Dec 1995 08:28:39 -0500 (EST)
From: Randy Hammock <hammock@tis.telos.com>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:4962] APRS Information Needed (Answers)
In-Reply-To: <Pine.SUN.3.91.951206153851.13638F-1000000@greatlakes>
Message-ID: <Pine.SOL.3.91.951207081445.8078A-1000000@zentropa>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 6 Dec 1995, Bob Bruninga wrote:

> > Why does APRS need a nation-wide frequency?
> OOPS, SAME AS ABOVE.. SO MOBILES OR EMERGENCY RESPONSE TEAMS CAN MOVE
> FROM AREA TO AREA TRANSPARENTLY. WE CAN TRAK AN AUTO FROM MAINE TO NORTH
> CAROLINA (ALMOST) AND FROM GA TO MS. THE AUTO NEVER NEEDS TO STOP, TO
> CHANGE FREQS, OR TO LOOK UP REPEATER CALLSIGNS, HE JUST DRIVES...

Though I've not used APRS, based on discussions from this SIG, it seems that the user has the arduous task of keeping the digi list updated so as to achieve best coverage; however, if one is willing to accept whatever coverage RELAY,WIDE,WIDE gives, then it is fairly simple.

Hopefully my GPS-45 will arrive on Friday and I will be able to explore the above and learn more based on personal experience rather than by indirect observation.

--

Randy Hammock KC6HUR	Randy.Hammock@Telos.com
Telos Information Systems - EDOS	hammock@gmd.trw.com
7474 Greenway Center Drive; Suite 400	Voice: +1 301 507-5904
Greenbelt, Maryland 20770	FAX: +1 301 507-5892

From mwalker@interlog.com Thu Dec 07 07:31:46 1995
Received: from gold.interlog.com (root@gold.interlog.com [198.53.145.2]) by
sys1.tapir.org (8.7.2/8.7.2) with SMTP id HAA13913 for <aprssig@tapir.org>; Thu, 7
Dec 1995 07:31:44 -0600 (CST)
Received: from interlog.com (mwalker.interlog.com [199.212.152.131]) by
gold.interlog.com (8.6.10/8.6.10) with SMTP id IAA13909 for <
aprssig@tapir.org>; Thu, 7 Dec 1995 08:31:35 -0500
Message-Id: <199512071331.IAA13909@gold.interlog.com>
Date: Thu, 07 Dec 95 08:31:30 EST
From: mwalker@interlog.com (Mike Walker)
Reply-To: mwalker@interlog.com (Mike Walker)
To: aprssig@tapir.org
X-Mailer: Mike Walker's PMMail v1.1
Subject: Re: [APRSSIG:4928] Re: 144.390????

On Tue, 5 Dec 1995 18:06:45 -0600 (CST) you wrote:

>
>
>On Tue, 5 Dec 1995, HOLCOMB, GREGORY FRA wrote:
>
>> I have a question about 144.390 im not saying move or dont move im just
>> asking for more info b4 i "cast my vote"
>> 1. What is it used for in the US now?
>> 2. If a move was made could we go to 9600 at a later date?
>> 3. Would we have the power limmitions that i hear so many of you talking
>> about?
>> (digis with 5 watts dont work in the athens/atlanta area and mobiles
>> runing less than 10 watts dont work very well at all)
>> 4. I know that the cost of making modifications to radios would be
>> expensive but what are the long range benefits and would it be beter to
>> move now vs. moving when we have 3 times the users and digis?
>> 5. Is there a possible national cordinations on this (144.39)
>> frequency?ie having every body on the same frequency would be a much
>> beter situation
>>
>> thanks Lynn N4YCI at Univ of Georgia.....HI KIP!
>>
>>
>According to the ARRL Operating Manual...the ARRL bandplan places 144.390
>smack in the middle of the Oscar subband in the US...in Region 1 it would
>be 10 KHz away from the SSB meteor scatter freq....so there is the
>answer...why as why?
>
>de KD4UYR
>
>
>

Just to re-inforce the issue 144.390 is being used in Eastern Canada with a large number of digi's.

(Not to get on the weak signal people's back, as I do also work weak signal), I find that my packet radio stuff outsells the SSB stuff by 100:1 ratio (I work in a Amateur Radio Store).

Although there is a finite amount of bandwidth available, when push comes to shove, the band will expand to support those using it.

So far the 144.390 frequency has been used with little or no problems.

just my 2 cents worth....

cheers...mike

p.s. I can't believe the whining that goes on about spending \$24 on a set of crystals. A change in frequency for a digi is almost no effort, other than changing the crystals. You don't have to retune duplexors or even realign the radio. That's not even the cost of a case of beer here in Canada! (that's 24 bottles)

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

From ksproul@hardees.Rutgers.EDU Thu Dec 07 08:01:42 1995
Received: from old-hercules.rutgers.edu (old-hercules.rutgers.edu [128.6.18.82])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id IAA14671 for <aprssig@tapir.org>; Thu,
7 Dec 1995 08:01:39 -0600 (CST)
Received: (from ksproul@localhost) by old-hercules.rutgers.edu
(8.6.12+bestmx+oldruq+newsunq+grosshack/8.6.12) id JAA06368; Thu, 7 Dec 1995
09:01:36 -0500
Sender: Keith Sproul <ksproul@old-hercules.rutgers.edu>
Date: Thu, 7 Dec 95 9:01:36 EST
From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Reply-To: Keith Sproul <ksproul@hardees.Rutgers.EDU>
To: aprssig@tapir.org
In-Reply-To: Your message of Thu, 7 Dec 1995 00:09:16 -0600 (CST)
Subject: RE: APRS Symbols
Message-ID: <CMM-RU.1.4.818344896.ksproul@old-hercules.rutgers.edu>

> WB2NGZ@AOL.com said:
> >P.S.: I am still waiting for WB4APR to include an ICBM symbol in APRS that
> >explodes on impact so that our Daytona Beach "war games" will be more
> >realistic...He He.

This was ACTUALLY done in the Macintosh version.. I had been asked to do a demo for a Military research company, so I put in Tank symbols, Jeep, Helicopter, and one or two others, and had the ability to 'nuke' one..

It produced a very nice explosion on the screen, including the sound-effects.
Then deleted the station..

>
> That brings up a question.. Are they now, or will it be possible in the
> future to
> customize the symbols used in APRS? It might be useful for special events
> or just horsing around. (what's that I see, a miniature sleigh leaving the
> North Pole
> on a DR path to my QTH??.. grin)

This type of 'fancy' capabilities will be more realistic on the Mac/Windows versions.. The problem is that sending the stuff to transmit the new ICON over the air takes a reasonable amount of data... On VHF that wouldn't be a problem, but if you are transmitting the sleigh from the North Pole, it would probably want to go via HF also...

Bob and I discussed some stuff sort-of similar, for use with the SSIDs for special events, i.e. the ability to dynamically assign which -# is what type of ICON... This is actually implemented in the Mac/Windows version, but has NEVER been publicized, and as far as I know never used...

To be able to transmit a NEW icon over the air would require the transmission of 256 characters (would NOT have to be all in one packet)..
This would be a 16x16 color ICON..

Then, this NEW icon would be a valid symbol UNTIL you quit out of the program.

The big problem is that most (All?) of the first 96 characters are assigned already...

We DO have a method for using an alternative 96 characters/Icon types and this is implemented, but currently, it is not being used yet..

If there is anybody that REALLY would like this dynamic ICON capability please send PRIVATE mail to me, we will discuss it, and then if it seems reasonable, we may implement it later.. (Not for several months, thought too much else going on)

I already have a very simple format designed for this if we really want to do it.. I would just have to implement it..

Keith

Keith Sproul
Student Housing Network Coordinator
Rutgers University Computing Services
<http://www-ns.rutgers.edu/~ksproul/>

Ham Radio: WU2Z
ksproul@noc.rutgers.edu
908 445-3695 Work 908 445-2968 Fax
908 821-4828 Home

From jleonard@tbcnet.com Thu Dec 07 08:14:49 1995
Received: from tbc2.tbcnet.com (root@tbc2.tbcnet.com [205.199.1.5]) by
sys1.tapir.org (8.7.2/8.7.2) with SMTP id IAA15049 for <aprssig@tapir.org>; Thu, 7
Dec 1995 08:14:46 -0600 (CST)
Received: from [205.199.1.129] (jbleonard.tbcnet.com [205.199.1.129]) by
tbc2.tbcnet.com (8.6.12/8.6.12) with SMTP id IAA24001 for <aprssig@tapir.org>; Thu,
7 Dec 1995 08:14:49 -0600
Message-Id: <199512071414.IAA24001@tbc2.tbcnet.com>
To: APRS SIG <aprssig@tapir.org>
Subject: Re: [APRSSIG:4977] Re: CHANGE 145.79?!
Date: Thu, 07 Dec 95 08:14:27 -0500
From: "John B. Leonard" <jleonard@tbcnet.com>
X-Mailer: E-Mail Connection v2.5.03

-- [From: * EMC.Ver #2.5.02] --

Can I suggest (again!) that, with a decent antenna, we don't need high power
to get where we need to be seen on APRS?

And with reduced power, our chance of interference with our neighboring
frequencies/services are also reduced? Especially if we get our
radio's/tnc's outputs nominal.

And use of a bandpass filter makes it easier to hear other stations, so they
don't need to run high power.

The dilemma posed by the "whatdoya think about moving frequency?" question
could possibly be solved if we cleaned up our act a little.

----- REPLY, Original message follows -----

>
> 4. Perhaps another compromise can be mediated if moving is not reasonable
for
> either party. Perhaps, for example, we could 'shut down' or minimize the
net
> for the duration of a SAREX mission.
>
> Just food for thought, flames are neither required nor desired.
>
>

----- REPLY, End of original message -----

--
J Barry Leonard HamRadio N9VJQ/EN510W
Subependymoma 1990
DeKalb IL
E-MAIL: jleonard@tbcnet.com

From CHEAD@exame2.dseg.ti.com Thu Dec 07 10:21:00 1995
Received: from dragon.ti.com (dragon.ti.com [192.94.94.61]) by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id KAA19138 for <aprssig@tapr.org>; Thu, 7 Dec 1995 10:20:57 -0600 (CST)
Received: from lesol1.dseg.ti.com ([128.247.231.86]) by dragon.ti.com (8.6.12/) with ESMTP id KAA10173 for <aprssig@tapr.org>; Thu, 7 Dec 1995 10:20:12 -0600
Received: from exame2.dseg.ti.com (EXAME2.dseg.ti.com [128.247.183.127]) by lesol1.dseg.ti.com (8.6.9/8.6.6) with SMTP id KAA17445 for <aprssig@tapr.org>; Thu, 7 Dec 1995 10:19:54 -0600
Date: Thu, 7 Dec 1995 10:19:48 -0600 (CST)
From: Claude 995-5040 pager 4541 <CHEAD@exame2.dseg.ti.com>
To: aprssig@tapr.org
CC: CHEAD@exame2.dseg.ti.com
Message-Id: <951207101948.20607e9a@exame2.dseg.ti.com>
Subject: RE: [APRSSIG:4982] Dallas Maps

WOW - Less than 12 hour turnaround on request for a map for the Dallas Marathon, and Bill has posted 26 maps to tapr. THANKS - Bill, I owe you one (or I owe you many!!) As soon as I get dug out from the morning's avalanche of mail and To-Dos I'll go get them. BTW, I got my tracker working last night (GPS-45, KPC-3, Kenwood 7950) so it looks like we are all set for the race. Bill, Thanks again!

73 Claude Head
K5DTN
214.386.8966 home
214.995.5040 office
chead@exame2.dseg.ti.com

From randyh@gvgadg.gvg.TEK.COM Thu Dec 07 11:09:37 1995
Received: from inet1.tek.com (inet1.tek.com [134.62.48.21]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id LAA20639 for <aprssig@tapr.org>; Thu, 7 Dec 1995 11:09:34 -0600 (CST)
Received: by inet1.tek.com id <AA20822@inet1.tek.com>; Thu, 7 Dec 1995 09:08:51 -0800
Received: from tektronix.tek.com(134.62.48.24) by inet1 via smap (V1.3) id sma047424; Thu Dec 7 09:08:40 1995
Received: from gv-gate.gvg.tek.com by tektronix.TEK.COM (4.1/8.2) id AA10883; Thu, 7 Dec 95 09:08:00 PST
Received: from gvgadg.gvg.tek.com by gv-gate.gvg.tek.com (5.0/2.3) id AA25175; Thu, 7 Dec 1995 09:08:43 +0800
Received: from hallrpc (hallrpc.gvg.tek.com) by gvgadg.gvg.tek.com (4.1/SMI-4.1) id AA01376; Thu, 7 Dec 95 09:08:41 PST
Message-Id: <9512071708.AA01376@gvgadg.gvg.tek.com>
X-Sender: randyh@gvgadg.gvg.tek.com
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Thu, 07 Dec 1995 09:09:02 -0800
To: aprssig@tapr.org
From: randyh@gvgadg.gvg.TEK.COM (Randy Hall)
Subject: Train Trip History File

Hi,

I took Bob's suggestion and developed a history file of my up coming train trip.

I took the zipcode history file and change the calls to cities and also changed the lats and longs. I'm not sure if that was the correct way to generate the file, but it seems to work.

This was a good exercise, in that some of the cites that are the next stop were showing up much to the West, by a couple of cities. So, I used a map for some of the data.

So, cut out the below and save it as RAILTRIP.HST and load it into APRS. Also an interesting thing to do is to put the railtrip and the zipcode list into one file together and load that!

Randy

WA2AGE

SACRAMENT	301440	@301440/3835.	N/12129.	W-APRSSIG
ROSEVILLE	301440	@301440/3844.	N/12117.	W-APRSSIG
COLFAX	301440	@301440/3905.	N/12057.	W-APRSSIG
TRUCKEE	301440	@301440/3919.	N/12011.	W-APRSSIG
RENO	301440	@301440/3931.	N/11948.	W-APRSSIG
SPARKS	301440	@301440/3932.	N/11945.	W-APRSSIG
LOVELOCK	301440	@301440/4010.	N/11828.	W-APRSSIG
WINNEMUCA	301440	@301440/4058.	N/11743.	W-APRSSIG
ELKO	301440	@301440/4049.	N/11545.	W-APRSSIG
SALT LAKE	301440	@301440/4032.	N/11153.	W-APRSSIG
PROVO	301440	@301440/4013.	N/11139.	W-APRSSIG
HELPER	301440	@301440/3941.	N/11051.	W-APRSSIG
THOMPSON	301440	@301440/3858.	N/10943.	W-APRSSIG
GRANDJUNC	301440	@301440/3904.	N/10833.	W-APRSSIG
GLENWOOD	301440	@301440/3932.	N/10719.	W-APRSSIG
GRANBY	301440	@301440/4004.	N/10556.	W-APRSSIG
WINTERPK	301440	@301440/4004.	N/10602.	W-APRSSIG
DENVER	301440	@301440/3944.	N/10459.	W-APRSSIG
FTMORGAN	301440	@301440/4015.	N/10348.	W-APRSSIG
MCCOOK	301440	@301440/4012.	N/10037.	W-APRSSIG
HOLDREGE	301440	@301440/4026.	N/ 9922.	W-APRSSIG
HASTINGS	301440	@301440/4035.	N/ 9823.	W-APRSSIG
LINCOLN	301440	@301440/4049.	N/ 9641.	W-APRSSIG
OHAMA	301440	@301440/4116.	N/ 9600.	W-APRSSIG
CRESTON	301440	@301440/4103.	N/ 9421.	W-APRSSIG
OSCEOLA	301440	@301440/4102.	N/ 9346.	W-APRSSIG
OTTUMWA	301440	@301440/4101.	N/ 9224.	W-APRSSIG
MTPLEASNT	301440	@301440/4057.	N/ 9133.	W-APRSSIG
BURLINGTN	301440	@301440/4048.	N/ 9113.	W-APRSSIG
GALESBURG	301440	@301440/4056.	N/ 9022.	W-APRSSIG

PRINCETON 301440 @301440/4122. N/ 8928. W-APRSSIG
NAPERVILL 301440 @301440/4146. N/ 8807. W-APRSSIG
CHICAGO 301440 @301440/4152. N/ 8737. W-APRSSIG
HAMMOND 301440 @301440/3947. N/ 8835. W-APRSSIG
SOUTHBEND 301440 @301440/4140. N/ 8615. W-APRSSIG
ELKHART 301440 @301440/4147. N/ 8600. W-APRSSIG
BRYAN 301440 @301440/4128. N/ 8433. W-APRSSIG
TOLEDO 301440 @301440/4135. N/ 8331. W-APRSSIG
SANDUSKY 301440 @301440/4126. N/ 8242. W-APRSSIG
ELYRIA 301440 @301440/4121. N/ 8206. W-APRSSIG
CLEVELAND 301440 @301440/4129. N/ 8141. W-APRSSIG
ERIE 301440 @301440/4206. N/ 8004. W-APRSSIG
BUFFALO 301440 @301440/4253. N/ 7852. W-APRSSIG
ROCHESTER 301440 @301440/4309. N/ 7736. W-APRSSIG

From ke4eer@ro.com Thu Dec 07 12:08:39 1995

Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id MAA22790 for <aprssig@tapir.org>; Thu, 7 Dec 1995 12:08:37 -0600 (CST)

Received: from ts2p1.ro.com (ts2p1.ro.com [205.216.92.51]) by sh1.ro.com (8.6.9/8.6.9) with SMTP id NAA10741 for <aprssig@tapir.org>; Thu, 7 Dec 1995 13:06:22 -0600

Message-Id: <199512071906.NAA10741@sh1.ro.com>

X-Mailer: InternetWorks Mail and News 1.1

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Date: Thu, 07 Dec 1995 11:59:44

From: ke4eer@ro.com (William Nolle)

To: aprssig@tapir.org

Subject: 100K maps

Here is another couple of mapmaking tidbits to think of. When testing between the two program (MKMAPHK1 & MKMAPKKE) i have found that for some reason the original MKMAPHK! will allow a one mile map where MKMAPKKE will not!. Now before jumping on me this test was using the same data files, same size,same everything. Today i had an occasion where i needed a 1 mile +1 map i couldn't make it at all using MKMAPKKE.... I also found the following Bug, DON'T SCRUNCCE if you don't have to. I was wondering why i was getting so many streets with 45 degree points, so i did two maps 1 with scrunching at bot 1.1 and 1.2 and that map had many 45 degree streets that where not there in the unscrunched map, so when making a 1 mile map and when done the map looks like a mess, just rename the MAP.DAT to your map name and if under 3000 point's leave it alone or it WILL get screwed up. Hope this helps the mapmakers a little.

Bill KE4EER

ke4eer@ro.com

From ah586@detroit.freenet.org Thu Dec 07 13:20:12 1995

Received: from detroit.freenet.org (detroit.freenet.org [204.29.212.10]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id NAA25654 for <aprssig@tapir.org>; Thu, 7

Dec 1995 13:20:08 -0600 (CST)
Received: (from ah586@localhost) by detroit.freenet.org (8.6.10/869.2) id
OAA01838; Thu, 7 Dec 1995 14:06:36 -0500
Date: Thu, 7 Dec 1995 14:06:36 -0500
Message-Id: <199512071906.OAA01838@detroit.freenet.org>
From: ah586@detroit.freenet.org (Steve Sable)
To: aprssig@tapr.org
Subject: More PK-900 problems
Reply-To: ah586@detroit.freenet.org

Now have ver 7.4c with my PK-900. I see that
a new option has appeared when setting up asking
if I have a dual port to which I answered yes.
Now in the status bar if I had selected from
the ON-SCREEN,CONTROL,BANDS, 2PORT there appear's
a "2*VHF" of "2*HF". How does one switch bands?
Do you goto command mode and set it or can you do
it from the APRS prog itself?
With ver 7.4c I cant seem to alter the initaea.tnc
file at all. If I change a param the entire sequence
wont load into the tnc. It seems from earlier they would
at least flash on the screen that they were going into
the TNC, but if I went to the command mode, none of
them were set. Even if I do a ALT-S none of initaea.tnc
parms goto the tnc. What am I doing wrong?
If I goto command mode I can enter them in with no
problem but there is quite a few params I want set and
this sure takes time.

--

```
  _ _ | | _ _ _ _ | _ _ | \ \ / _ _ | ah586@detroit.freenet.org
 \ _ _ \      | _ _ | \ \ / _ _ |      N8NYU
 ----/      _ _ | _ _ | \ _ / _ _ | Maybee, Michigan
```

From ddoulou@tesla.netline.net Thu Dec 07 13:33:52 1995
Received: from tesla.netline.net (root@tesla.netline.net [204.117.219.2]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id NAA26172 for <aprssig@tapr.org>; Thu, 7
Dec 1995 13:33:46 -0600 (CST)
Received: from ddoulou (tpa02.netline.net [205.160.7.82]) by tesla.netline.net
(8.6.12/8.6.9) with SMTP id OAA27486 for <aprssig@tapr.org>; Thu, 7 Dec 1995
14:34:36 -0500
Message-Id: <199512071934.OAA27486@tesla.netline.net>
Comments: Authenticated sender is <ddoulou@mail.netline.net>
From: "Demos Doulou" <ddoulou@tesla.netline.net>
To: aprssig@tapr.org
Date: Thu, 7 Dec 1995 14:35:07 +0005
Subject: Re: [APRSSIG:4986] Re: 144.390????
Priority: normal
X-mailer: Pegasus Mail for Windows (v2.10)

>d d>
> p.s. I can't believe the whining that goes on about spending \$24 on a set of
> crystals. A change in frequency for a digi is almost no effort, other than
> changing the crystals. You don't have to retune duplexors or even realign the
> radio. That's not even the cost of a case of beer here in Canada!
> (that's 24 bottles)
>
>
>
> Mike Walker mwalker@interlog.com
> 127 High St. W. rf: va3mw@va3bbs
> Mississauga, ON
> L5H 1K4
>
>
>

Not true. I would have to tune a cavity filter on my digi. Got to have one or the imod kills it. Ok so it takes only five minutes to tune it. Now reprograming the eprom is the most work for me. I have to dismantle the digi and take the radio to our local sheriff department. But I'm not complaining. Ill move if we have to.

73 Demos KR4US

From ddoulou@tesla.netline.net Thu Dec 07 13:39:45 1995
Received: from tesla.netline.net (root@tesla.netline.net [204.117.219.2]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id NAA26242 for <aprssig@tapir.org>; Thu, 7 Dec 1995 13:39:43 -0600 (CST)
Received: from ddoulou (tpa02.netline.net [205.160.7.82]) by tesla.netline.net (8.6.12/8.6.9) with SMTP id OAA27881 for <aprssig@tapir.org>; Thu, 7 Dec 1995 14:40:37 -0500
Message-Id: <199512071940.OAA27881@tesla.netline.net>
Comments: Authenticated sender is <ddoulou@mail.netline.net>
From: "Demos Doulou" <ddoulou@tesla.netline.net>
To: aprssig@tapir.org
Date: Thu, 7 Dec 1995 14:41:08 +0005
Subject: Re: [APRSSIG:4987] RE: APRS Symbols
Priority: normal
X-mailer: Pegasus Mail for Windows (v2.10)

> Date: Thu, 7 Dec 1995 08:08:34 -0600 (CST)
> Reply-to: aprssig@tapir.org
> From: Keith Sproul <ksproul@hardees.rutgers.edu>
> To: aprssig@tapir.org
> Subject: [APRSSIG:4987] RE: APRS Symbols

> > WB2NGZ@AOL.com said:
> > >P.S.: I am still waiting for WB4APR to include an ICBM symbol in APRS that
> > >explodes on impact so that our Daytona Beach "war games" will be more
> > >realistic...He He.
>
> This was ACTUALLY done in the Macintosh version.. I had been asked to do a
> demo for a Military research company, so I put in Tank symbols, Jeep,
> Helicopter, and one or two others, and had the ability to 'nuke' one..
>
> It produced a very nice explosion on the screen, including the sound-effects.
> Then deleted the station..
>
d

I like it!! I want it!!!

There are several stations that I'd like to nuke.

73 Demos KR4US

From scottm@sierra.net Thu Dec 07 14:48:51 1995
Received: from diamond.sierra.net (root@diamond.sierra.net [204.94.39.235]) by
sys1.tapir.org (8.7.2/8.7.2) with SMTP id OAA28653 for <aprssig@tapir.org>; Thu, 7
Dec 1995 14:48:42 -0600 (CST)
Received: from brockway-d226.sierra.net by diamond.sierra.net with SMTP id AA21621
(5.67b8/IDA-1.5 for <aprssig@tapir.org>); Thu, 7 Dec 1995 12:48:36 -0800
Message-Id: <199512072048.AA21621@diamond.sierra.net>
X-Sender: scottm@diamond.sierra.net
X-Mailer: Windows Eudora Light Version 1.5.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Thu, 07 Dec 1995 12:47:25 -0800
To: aprssig@tapir.org
From: Scott Miller <scottm@sierra.net>
Subject: Re: [APRSSIG:4981] Re: HELP with pico w/2nd serial port and

At 01:06 AM 12/7/95 -0600, you wrote:

>At 01:28 AM 95-12-6 -0600, you wrote:

>>Hi everybody, I'm new to aprs and newer to internet.My problem is when I go
>>mobile I don't see myself on the map.I see everybody else,and they see
>>me,and I see myself being digi'd. I would be very grateful for any sugesstions
>>thank you all 73 Scott

>>

>>

>When using a pico with the second serial port the is a TNC command that has
>to be used, its ELO on.
>ELO on caused the GPS data to stream onto the serial port 1 of the TNC which
>is connected to your computer running APRS. This eliminates the need for the
>hardware single port cable, and is quite effective.

>

>Pertinet commands

>LOC EVERY 3 number*10 seconds

>GPSTEXT \$GPRMC Your \$GP??? NMEA Data type

>ELO Echo's GPS NMEA data to serial
>port 1 from 2
>
>For a standalone tracker you would also do GPS on
>
>Hope that helps
>barrettd
>
>
Thanks very much for suggestion.
I don't find a ELO command on my Pico.

73 Scott

From TOMB@avoca.nwscs.sea06.navy.mil Thu Dec 07 15:15:15 1995
Received: from cobra.nwscs.sea06.navy.mil (cobra.nwscs.sea06.navy.mil
[130.163.65.90]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id PAA29164 for
<aprssig@tapir.org>; Thu, 7 Dec 1995 15:15:12 -0600 (CST)
Received: from avoca.nwscs.sea06.navy.mil (AVOCA.nwscs.sea06.navy.mil
[130.163.8.61]) by cobra.nwscs.sea06.navy.mil (8.6.12/8.6.12) with ESMTP id
QAA27965 for <aprssig@tapir.org>; Thu, 7 Dec 1995 16:14:47 -0500
Received: from AVOCA/SpoolDir by avoca.nwscs.sea06.navy.mil (Mercury 1.21);
7 Dec 95 16:15:01 -0500 (EST)
Received: from SpoolDir by AVOCA (Mercury 1.21); 7 Dec 95 16:14:51 -0500 (EST)
To: aprssig@tapir.org
From: "Thomas H. Busch" <TOMB@avoca.nwscs.sea06.navy.mil>
Organization: Systems Engineering Department
Date: Thu, 7 Dec 1995 16:14:50 -0500 (EST)
Subject: Re: [APRSSIG:4991] 100K maps
Priority: normal
X-mailer: WinPMail v1.0 (R2)
Message-ID: <1A0CF282EEE@avoca.nwscs.sea06.navy.mil>

> I was wondering why i was getting so many streets with 45 degree
> points

I'm convinced USGS data does not have enough points at the 1 mile
level for the mapfix or mkmapxxx join/scrunch algorithms to work.

From rwf@mindspring.com Thu Dec 07 15:22:38 1995
Received: from borg.mindspring.com (root@borg.mindspring.com [204.180.128.14]) by
sys1.tapir.org (8.7.2/8.7.2) with SMTP id PAA29583 for <aprssig@tapir.org>; Thu, 7
Dec 1995 15:22:32 -0600 (CST)
Received: from rwf.mindspring.com [168.121.44.154] by borg.mindspring.com
with SMTP id QAA23655 for <aprssig@tapir.org>; Thu, 7 Dec 1995 16:22:24 -0500
Date: Thu, 7 Dec 1995 16:22:24 -0500
Message-Id: <199512072122.QAA23655@borg.mindspring.com>
X-Sender: rwf@mindspring.com
X-Mailer: Windows Eudora Version 2.1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapir.org
From: rwf <rwf@mindspring.com>

Subject: Re: [APRSSIG:4986] Re: 144.390????

This isn't a flame- just an attempt to properly enlighten users about the complexity of remotely located digipeaters at shared commercial (read: "good") sites.

Somebody wrote:

>
>p.s. I can't believe the whining that goes on about spending \$24 on a set of
>crystals. A change in frequency for a digi is almost no effort, other than
>changing the crystals. You don't have to retune duplexors or even realign the
>radio. That's not even the cost of a case of beer here in Canada!
>(that's 24 bottles)
>

Excuse me, I have tried to stay quiet on the subject of this frequency change.
And I'm not discussing the idea of the frequency change, either- only the suggestion that it is almost no effort to change something about a digipeater. But now I can't stand it any more, especially when someone says things that potentially can give folks the wrong idea.

Most of the time, owners attempt to place Repeaters, links, and even packet (APRS) digipeaters at the highest site possible. Something about this seems to make them cover further and for some reason users like that. Especially mobile users. Since there are not that many Hams who can develop a high site out of their own pocket change, we must rely on space provided by Commercial sites. Any time a transmitter is installed, especially at any commercial site or site shared with others, good practice dictates that at least a bandpass cavity be used.

This is to protect other users from possible spurious emissions, to protect against other signals from getting to your transmitter to mix and be retransmitted, and last but not least: to protect your receiver from desense as a result of other transmitters nearby. Tuned cavities need to be tuned (and retuned when their operating frequency is changed)

If a site owner does not require this on *all* transmitters at his site, he is doing all of his users a disservice.
Many times, an RF isolator is specified and is a great idea as well!

Sure the crystals are not a major expense, even for properly aged ones that

will stay on
or near the correct frequency.

But in the case of a well-located digi, or someone with several digis, the other costs can mount up!

For example, in our area (Georgia/Alabama/TN) we have a nice APRS network of at least 11 digis that I can count off the top of my head.

Several are at fairly easy locations to service. Some are not. The new one we just added this weekend is over 120 miles from my house, at the top of a very curvy and dangerous 8 mile long road up a 4800 foot hill. It is not even possible to visit it in the winter due to road conditions (no snowmobiles here in GA, yet) To drive there and turn around and drive back is 7-8 hours for me.

I prefer crystal control for fixed site radios, too many things to go wrong on a synthesized unit, and an Azden/Alinco/Kenwood/Yaesu or any other ham rig has no place at a hostile site. Crystal controlled radios usually work better when they are tuned to the operating frequency. That's why alignment instructions are published in the service manuals.

I guess you could run up, change the crystals and hope the radio operated correctly on the new frequency and hope that the duplexer was tuned close enough to do its job and not damage your transmitter with high reflected power. I've even netted crystals 5 KHz in an emergency, but this has already been discussed. I wouldn't do it. I'd just as soon connect to it and turn off digipeat, before I jury-rigged something like that. (and thanks to the remote sysop commands on the TNC, I can do that)

Luckily, I have an IFR (service monitor). I'm not in the 2-way business but do have 12 voice repeaters, 1 ATV repeater, and 3 digipeaters. I ran across a good deal at an IRS sale. I have to *borrow* or *rent* a spectrum analyzer to properly tune the cavities.

So... let's go change the frequency of N4NEQ-3

All prices in US \$\$\$\$\$\$

\$ 75.00	Drive from Atlanta GA to Andrews, NC and back: 125 miles x 2 ways x .30 per mile
\$450.00	Cost of my lost time to drive both ways and spend an hour at the site (@ 50.00/hr)
\$ 20.00	Cost of crystals from Bomar, 3 wk slow boat delivery.
\$?????	Kissing up to guy with spectrum analyzer so we can get the cavity "dead-on".
\$ 12.00	2 meals
\$ 3.00	Refreshments (Always Coca-Cola)

\$560.00 For 1 Digi !!!!

vs

\$ 20.00 1 case of imported, canadian beer

I didn't even enter anything for the potential family problems that this little jaunt will create.

Come on down to the frequency changing party, You drive up, change the frequency, realign the radio and retune the cavity, and I'll buy the beer and have it waiting for you when you get back..

The other digis may not be as much trouble, but each one will have its own unique situation.

Some folks may have to have a radio shop retune their radio- they may not have an IFR and they will certainly want to operate within specs.

Folks- changing things about remotely located radio equipment is never easy OR cheap.

Right, Mr. Bob APR (how far was it again to that Wide-Relay you have? 3 hours each way or so?)

Ralph
N4NEQ

From rwf@mindspring.com Thu Dec 07 15:30:54 1995

Received: from borg.mindspring.com (root@borg.mindspring.com [204.180.128.14]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id PAA29708 for <aprssig@tapr.org>; Thu, 7 Dec 1995 15:30:52 -0600 (CST)

Received: from rwf.mindspring.com [168.121.44.154] by borg.mindspring.com with SMTP id QAA25847 for <aprssig@tapr.org>; Thu, 7 Dec 1995 16:30:45 -0500

Date: Thu, 7 Dec 1995 16:30:45 -0500

Message-Id: <199512072130.QAA25847@borg.mindspring.com>

X-Sender: rwf@mindspring.com

X-Mailer: Windows Eudora Version 2.1.1

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

To: aprssig@tapr.org

From: rwf <rwf@mindspring.com>

Subject: Re: [APRSSIG:4991] 100K maps

At 12:14 PM 12/7/95 -0600, you wrote:

>so when

>making a 1 mile map and when done the map looks like a mess, just rename

>the MAP.DAT to your map name and if under 3000 point's leave it alone or

>it WILL get screwed up. Hope this helps the mapmakers a little.

>

I've had good luck renaming the "temp" file as the map file too, except on really large detailed maps.

From rwf@mindspring.com Thu Dec 07 15:30:59 1995
Received: from borg.mindspring.com (root@borg.mindspring.com [204.180.128.14]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id PAA29709 for <aprssig@tapir.org>; Thu, 7 Dec 1995 15:30:53 -0600 (CST)
Received: from rwf.mindspring.com [168.121.44.154] by borg.mindspring.com with SMTP id QAA25857 for <aprssig@tapir.org>; Thu, 7 Dec 1995 16:30:47 -0500
Date: Thu, 7 Dec 1995 16:30:47 -0500
Message-Id: <199512072130.QAA25857@borg.mindspring.com>
X-Sender: rwf@mindspring.com
X-Mailer: Windows Eudora Version 2.1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapir.org
From: rwf <rwf@mindspring.com>
Subject: Re: [APRSSIG:4994] RE: APRS Symbols

At 02:02 PM 12/7/95 -0600, the Sproul-Meister wrote:

>>
>> This was ACTUALLY done in the Macintosh version.. I had been asked to do a
>> demo for a Military research company, so I put in Tank symbols, Jeep,
>> Helicopter, and one or two others, and had the ability to 'nuke' one..
>>
>> It produced a very nice explosion on the screen, including the sound-effects.
>> Then deleted the station..

PLEASE don't give it to Uncle Bill, EER!! :)

From scottm@sierra.net Thu Dec 07 15:34:04 1995
Received: from diamond.sierra.net (root@diamond.sierra.net [204.94.39.235]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id PAA00177 for <aprssig@tapir.org>; Thu, 7 Dec 1995 15:34:00 -0600 (CST)
Received: from brockway-d220.sierra.net by diamond.sierra.net with SMTP id AA28124 (5.67b8/IDA-1.5 for <aprssig@tapir.org>); Thu, 7 Dec 1995 13:33:53 -0800
Message-Id: <199512072133.AA28124@diamond.sierra.net>
X-Sender: scottm@diamond.sierra.net
X-Mailer: Windows Eudora Light Version 1.5.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Thu, 07 Dec 1995 13:32:43 -0800
To: aprssig@tapir.org
From: Scott Miller <scottm@sierra.net>
Subject: MacAPRS help and txt files

Hi, I still havent been able to open the help or text files for MacAPRS.

Does someone know if I can download them with my PC from somewhere and what they are called?
I'm new to this. Much thanks 73 Scott in Tahoe City Ca.

From gerry@cs.tamu.edu Thu Dec 07 15:38:56 1995
Received: from cs.tamu.edu (clavin.cs.tamu.edu [128.194.130.106]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id PAA00229 for <aprssig@tapir.org>; Thu, 7 Dec 1995 15:38:54 -0600 (CST)
Received: from solar.cs.tamu.edu (2961@solar.cs.tamu.edu [128.194.132.1]) by cs.tamu.edu (8.6.10/8.6.4) with ESMTP id PAA21446 for <aprssig@tapir.org>; Thu, 7 Dec 1995 15:38:17 -0600
From: Gerald J Creager <gerry@cs.tamu.edu>
Received: (gerry@localhost) by solar.cs.tamu.edu (8.6.10/8.6.4) id PAA23745 for aprssig@tapir.org; Thu, 7 Dec 1995 15:38:10 -0600
Message-Id: <199512072138.PAA23745@solar.cs.tamu.edu>
Subject: Re: [APRSSIG:4938] Re: GPS simultaneous parallel tracking
To: aprssig@tapir.org
Date: Thu, 7 Dec 1995 15:38:10 -0600 (CST)
In-Reply-To: <Pine.3.89.9512051933.A2477-01000000@bcfreenet.seflin.lib.fl.us> from "Terry Taylor" at Dec 6, 95 00:35:03 am
X-Mailer: ELM [version 2.4 PL24]
Content-Type: text

Terry Taylor sez:

>
> As one who flies the larger birds, here's my 2 pennies on the
> discussion about GPS instrument approaches.
>
> To my knowledge, the GPS aviation instrument approach is still
> published as just a non-precision approach. That means there is only
> lateral navigational capability, with no vertical capability at all.
> The pilot makes descents to published lower altitudes (to clear obstacles)
> as the aircraft approaches the airport. The system would need to be
> accurate enough to meet the TERPS (standard for defining clearance from
> known obstacles) criteria for a non-precision approach, of which the VOR,
> NDB, BC Localizer, TACAN, all meet these requirements.

Some work has been done with CAT-II and CAT-IIIa ILS using GPS with differential correction and pseudolite PRNs in Denver. Stanford is doing a lot of the work.

> To my knowledge, no commercial airline is using GPS for point to
> point navigation, nor instrument approaches. This is probably more due to
> cost, than technical capability. Someday, I expect the GPS will replace
> the VOR and TACAN navigation system.

It may be ended now, but Alaska Air, and Continental were doing GPS approaches at several major airports, and Continental Express was routinely using it at Denver as an experiment.

Once the FAA WAAS is in place real time updates with high precision positioning will start to become routine. I do *NOT* expect the \$300 GPS receivers, however, to ever be in this game. I fully expect the receivers

used for this will be code-correlated L1/L2 receivers with carrier phase (for the technically inclined).

I'm hoping to start a project using APRS and airborne GPS in the Flying Club airplanes here as a poor-man's radar for the local tower... as a demonstration only. Just playing with the idea, though, rather than looking at it as a "real" venture. (no local radar feed, and we're below the horizon for ZHOU's nearest site)

73, gerry

--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

From gerry@cs.tamu.edu Thu Dec 07 15:53:28 1995
Received: from cs.tamu.edu (clavin.cs.tamu.edu [128.194.130.106]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id PAA00719 for <aprssig@tapir.org>; Thu, 7 Dec 1995 15:53:24 -0600 (CST)
Received: from solar.cs.tamu.edu (2961@solar.cs.tamu.edu [128.194.132.1]) by cs.tamu.edu (8.6.10/8.6.4) with ESMTP id PAA21861 for <aprssig@tapir.org>; Thu, 7 Dec 1995 15:52:46 -0600
From: Gerald J Creager <gerry@cs.tamu.edu>
Received: (gerry@localhost) by solar.cs.tamu.edu (8.6.10/8.6.4) id PAA24246 for aprssig@tapir.org; Thu, 7 Dec 1995 15:52:38 -0600
Message-Id: <199512072152.PAA24246@solar.cs.tamu.edu>
Subject: Re: [APRSSIG:4944] Re: EUROMIR + SAFEX FREQUENCY CLARIFICATION
To: aprssig@tapir.org
Date: Thu, 7 Dec 1995 15:52:36 -0600 (CST)
In-Reply-To: <199512061328.IAA27288@tesla.netline.net> from "Demos Doulou" at Dec 6, 95 07:42:37 am
X-Mailer: ELM [version 2.4 PL24]
Content-Type: text

Demos Doulou sez:

>

> Good point, and we all need to be thinking of putting new services
> on UHF and above. It is kind of dumb to be trying to put more
> and more digital modes on 2 meters where there is very little room
> left for anything.

Note, however, that there are areas of the country where we'd need to move above 450 MHz, too. Channels for analog and digital are filling in most of Texas!

> We have run out of good repeater pairs here in Pinellas, and
> repeaters are showing up where they should not be, like there is a
> repeater on 145.820 here in Florida, which should make the satellite
> people very unhappy.

Not to mention being illegal!

> But 2 meters is not effected by the environment as much as UHF and
> above making it better for mobile ground communications, or for
> tracking mobiles, where UHF and the microwave bands seem to be better
> for space comms.

I guess you're not completely conversant with doppler shift, which markedly increases we frequency increases. Microwave is used to geostationary satellites (TDRSS) because they do not move much relative to the earth, and therefore the doppler shift is limited. The Shuttle, Mir, and SS Alpha will move at 17,000 MHP, for a round number, in relation to Earth's surface. That makes for reasonably high numbers.

73, gerry--

Gerry Creager N5JXS * SAREX Co-Investigator
gerry@cs.tamu.edu * A little radio that lets kids talk
 * to astronauts, and smile

From gerry@cs.tamu.edu Thu Dec 07 16:03:34 1995

Received: from cs.tamu.edu (clavin.cs.tamu.edu [128.194.130.106]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id QAA01115 for <aprssig@tapir.org>; Thu, 7 Dec 1995 16:03:30 -0600 (CST)

Received: from solar.cs.tamu.edu (2961@solar.cs.tamu.edu [128.194.132.1]) by cs.tamu.edu (8.6.10/8.6.4) with ESMTP id QAA22161 for <aprssig@tapir.org>; Thu, 7 Dec 1995 16:02:55 -0600

From: Gerald J Creager <gerry@cs.tamu.edu>

Received: (gerry@localhost) by solar.cs.tamu.edu (8.6.10/8.6.4) id QAA24473 for aprssig@tapir.org; Thu, 7 Dec 1995 16:02:48 -0600

Message-Id: <199512072202.QAA24473@solar.cs.tamu.edu>

Subject: Re: [APRSSIG:4949] Re: 144.390????

To: aprssig@tapir.org

Date: Thu, 7 Dec 1995 16:02:47 -0600 (CST)

In-Reply-To: <30C5DC39@ubmed.buffalo.edu> from "Young, Gregory" at Dec 6, 95 09:18:31 am

X-Mailer: ELM [version 2.4 PL24]

Content-Type: text

Young, Gregory sez:

>
> I need hardly point out that the freqs arbitrarily picked for shuttle
> communication, used at the time when the ONLY freqs available for packet,
> 144.91 to 145.09Mhz created some problems (and still do). Fortunately there
> are noe other packet subbands.

Actually, we did not arbitrarily pick the frequencies originally. When they were selected, packet did not exist. When STS-35 flew SAREX-II, post-Challenger, we had some apprehension about using those channels, BUT, since they were not yet assigned/coordinated to packet in most areas, and, because of the infrequent and transient nature of Shuttle passes, we decided to not go thru the gymnastics of getting frequencies changed at that point. Matter of fact, by the time it became a real issue, there was no way we could have changed frequencies before STS-35. After STS-37, some significant, if somewhat misguided, work went into changing a number of the channels. Long

>
> Remember, it wont take many COMMAND stations. One station in Maryland
> could execute MINIMIZE via the existing network and affect APRS stations
> out 250 miles via the network.
>
> AND adding the Packet burst (with GPS posit in it) is not a burden to the
> SAREX or SPACE STATION, but an actual ADVANTAGE! It can serve as an
> alerting beacon that the SPACE STATION is in range and shows the schools
> where the STATION is...
>
>

From gerry@cs.tamu.edu Thu Dec 07 16:56:38 1995
Received: from cs.tamu.edu (clavin.cs.tamu.edu [128.194.130.106]) by sys1.tapir.org
(8.7.2/8.7.2) with SMTP id QAA03009 for <aprssig@tapir.org>; Thu, 7 Dec 1995
16:56:20 -0600 (CST)
Received: from solar.cs.tamu.edu (2961@solar.cs.tamu.edu [128.194.132.1]) by
cs.tamu.edu (8.6.10/8.6.4) with ESMTP id QAA23761 for <aprssig@tapir.org>; Thu, 7
Dec 1995 16:55:40 -0600
From: Gerald J Creager <gerry@cs.tamu.edu>
Received: (gerry@localhost) by solar.cs.tamu.edu (8.6.10/8.6.4) id QAA25847 for
aprssig@tapir.org; Thu, 7 Dec 1995 16:55:32 -0600
Message-Id: <199512072255.QAA25847@solar.cs.tamu.edu>
Subject: Re: [APRSSIG:4965] Re: 144.390????
To: aprssig@tapir.org
Date: Thu, 7 Dec 1995 16:55:31 -0600 (CST)
In-Reply-To: <Pine.SUN.3.91.951206162706.13638I-1000000@greatlakes> from "Bob
Bruninga" at Dec 6, 95 03:44:50 pm
X-Mailer: ELM [version 2.4 PL24]
Content-Type: text

Bob Bruninga sez:

>
> On Wed, 6 Dec 1995, Young, Gregory wrote:
>
> > It's time for ALL to sit down and try to coordinate things a bit! The
> > growth of digital has far exceeded the demand for repeaters, manyfold. Look
> > at the spectrum allotted for those devices.. take a listen to the activity on
> > those, or should I say lack of activity..
>
> APR REPLY: And all of those voice repeaters could be used simultaneously
> for full duplex long distance 9600 baud data links. 70 channels on 2
> meters too. It can be done, is simple, and does NOT impact current voice
> users. See my 70chnls.2m README FILE...

It cannot be simply done, and it does impact voice operations. And packet
operations.

A number of the voice repeaters out there are not true-FM. While this may seem
insignificant, it is pretty important to those of us who've experimented with
9600 baud packet. Further, trying to move digital signals through a system
where others are involved, say, at a busy repeater site, may lose you friends
and influence enemies. If the radio's not tuned properly, and your digital

signal starts generating hash, you could bring a number of systems, non-hams at that, to a screeching halt.

Further, the users of voice systems will note the hissing and scratching associated with 9600 baud packet as a problem and will militate for "someone" to go fix it.

Finally, you have to find an area where the local repeater guru is A) knowledgeable in how the radio really works, B) knowledgeable in how packet works, C) knowledgeable in how 9600 baud modems work, D) a packet operator himself, and E) interested in melding the two technologies. Most, but admittedly not all, of the repeater gurus I know (that I'll readily admit know how to work on radios without a guide dog) are analog types with little interest in packet at any speed. A couple of them are rabid anti-packet folk. Two are interested in analog repeaters and digital boxes. None are interested in both on one system.

73, gerry N5JXS
n5jxs@tamu.edu

From gerry@cs.tamu.edu Thu Dec 07 17:21:52 1995
Received: from cs.tamu.edu (clavin.cs.tamu.edu [128.194.130.106]) by sys1.tappr.org (8.7.2/8.7.2) with SMTP id RAA04356 for <aprssig@tappr.org>; Thu, 7 Dec 1995 17:21:49 -0600 (CST)
Received: from solar.cs.tamu.edu (2961@solar.cs.tamu.edu [128.194.132.1]) by cs.tamu.edu (8.6.10/8.6.4) with ESMTP id RAA24549 for <aprssig@tappr.org>; Thu, 7 Dec 1995 17:21:11 -0600
From: Gerald J Creager <gerry@cs.tamu.edu>
Received: (gerry@localhost) by solar.cs.tamu.edu (8.6.10/8.6.4) id RAA26568 for aprssig@tappr.org; Thu, 7 Dec 1995 17:21:04 -0600
Message-Id: <199512072321.RAA26568@solar.cs.tamu.edu>
Subject: Re: [APRSSIG:4996] Re: 100K maps
To: aprssig@tappr.org
Date: Thu, 7 Dec 1995 17:21:04 -0600 (CST)
In-Reply-To: <1A0CF282EEE@avoca.nwscc.sea06.navy.mil> from "Thomas H. Busch" at Dec 7, 95 03:24:47 pm
X-Mailer: ELM [version 2.4 PL24]
Content-Type: text

Thomas H. Busch sez:

>
> > I was wondering why i was getting so many streets with 45 degree
> > points
>
> I'm convinced USGS data does not have enough points at the 1 mile
> level for the mapfix or mkmapxxx join/scrunch algorithms to work.

If you're making maps at that level, you should not scrunch 'em or you *will* lose detail, which, after all, is the point of having the maps AT that level.

I just made a number of maps for a demo here at the 2.2 mile scale and did not do a scrunch. Further, I had to abandon MKMAPHK* because it automatically tries to do some minimization I couldn't live with!

73, gerry

--

Gerry Creager N5JXS

gerry@cs.tamu.edu

* SAREX Co-Investigator

* A little radio that lets kids talk

* to astronauts, and smile

From sparkfel@primenet.com Thu Dec 07 17:59:53 1995

Received: from mailhost1.primenet.com (mailhost1.primenet.com [198.68.32.51]) by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id RAA06850 for <aprssig@tapr.org>; Thu, 7 Dec 1995 17:59:50 -0600 (CST)

Received: from usr4.primenet.com (root@usr4.primenet.com [198.68.32.14]) by mailhost1.primenet.com (8.7.1/8.7.1) with ESMTP id QAA01181 for <aprssig@tapr.org>; Thu, 7 Dec 1995 16:59:43 -0700 (MST)

Received: from ip213.phx.primenet.com (ip213.phx.primenet.com [198.68.46.213]) by usr4.primenet.com (8.7.1/8.7.1) with SMTP id QAA12358; Thu, 7 Dec 1995 16:59:43 -0700 (MST)

Date: Thu, 7 Dec 1995 16:59:43 -0700 (MST)

Message-Id: <199512072359.QAA12358@usr4.primenet.com>

X-Sender: sparkfel@mailhost.primenet.com

X-Mailer: Windows Eudora Version 1.4.4

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

To: aprssig@tapr.org, aprssig@tapr.org

From: sparkfel@primenet.com (Mark Fellhauer)

Subject: Re: [APRSSIG:4997] Re: 144.390????

At 03:29 PM 12/7/95 -0600, rwf wrote:

Lots of stuff deleted for brevity

>Folks- changing things about remotely located radio equipment is never
>easy OR cheap.

>

>Right, Mr. Bob APR (how far was it again to that Wide-Relay you have? 3
>hours each way or so?)

>

>Ralph

>N4NEQ

>

Very well put. It's not a simple matter to change frequencies on mountaintop sites. The last antenna install for the Arizona Repeater Association was a nightmare from start to finish, including the crane ROLLING OVER on it's trip down a fog shrouded Mt. Ord road!

A "simple" lightning arrestor install on a White Tanks node took about 4 hours, including drive time. And that's an urban (more or less) site, here in Phoenix.

Mark Fellhauer

KC7BXS

ThunderBird ARC Packet Coordinator
sparkfel@primenet.com
KC7BXS@N7MRP.AZ.USA.NA

From ke4eer@ro.com Thu Dec 07 20:04:40 1995
Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id UAA11099 for <aprssig@tapir.org>; Thu, 7 Dec 1995 20:04:38 -0600 (CST)
Received: from ts2p12.ro.com (ts2p12.ro.com [205.216.92.62]) by sh1.ro.com (8.6.9/8.6.9) with SMTP id UAA01937 for <aprssig@tapir.org>; Thu, 7 Dec 1995 20:50:14 -0600
Message-Id: <199512080250.UAA01937@sh1.ro.com>
X-Mailer: InternetWorks Mail and News 1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Thu, 07 Dec 1995 19:43:47
From: ke4eer@ro.com (William Nolle)
To: aprssig@tapir.org
Subject: Re: [APRSSIG:4999] RE: APRS Symbols

Hey YES,YES,YES that would be GREAT, then i would be able to take care of those EGO didgis Hi..

Bill KE4EER

>At 02:02 PM 12/7/95 -0600, the Sproul-Meister wrote:
>
>>>
>>> This was ACTUALLY done in the Macintosh version.. I had been asked to do a
>>> demo for a Military research company, so I put in Tank symbols, Jeep,
>>> Helicopter, and one or two others, and had the ability to 'nuke' one..
>>>
>>> It produced a very nice explosion on the screen, including the sound-effects.
>>> Then deleted the station..
>
>
>
>PLEASE don't give it to Uncle Bill, EER!! :)
>

From bruninga@nadn.navy.mil Thu Dec 07 20:36:19 1995
Received: from greatlakes.nadn.navy.mil (greatlakes.nadn.navy.mil [131.121.9.4]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id UAA12234 for <aprssig@tapir.org>; Thu, 7 Dec 1995 20:36:15 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadn.navy.mil (8.6.12/8.6.12) id VAA01013; Thu, 7 Dec 1995 21:36:40 -0500
Date: Thu, 7 Dec 1995 21:36:39 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:4985] Re: APRS Information Needed (Answers)
In-Reply-To: <Pine.SOL.3.91.951207081445.8078A-100000@zentropa>

Message-ID: <Pine.SUN.3.91.951207213503.872G-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 7 Dec 1995, Randy Hammock wrote:

> Though I've not used APRS, based on discussions from this SIG, it seems
> that the user has the arduous task of keeping the digi list updated so as
> to achieve best coverage; however, if one is willing to accept whatever
> coverage RELAY,WIDE,WIDE gives, then it is fairly simple.
>

Keeping track of the DIGIS is simple. LOOK AT THE MAP. All the DIGIS
show up as BIG GREEN STARS. If you are in range of one, then you WILL be
seen.

From bruninga@nadm.navy.mil Thu Dec 07 20:54:23 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id UAA13014 for <aprssig@tapir.org>; Thu,
7 Dec 1995 20:54:21 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
VAA01149; Thu, 7 Dec 1995 21:54:45 -0500
Date: Thu, 7 Dec 1995 21:54:45 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:4996] Re: 100K maps
In-Reply-To: <1A0CF282EEE@avoca.nwscc.sea06.navy.mil>
Message-ID: <Pine.SUN.3.91.951207215402.1100D-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 7 Dec 1995, Thomas H. Busch wrote:

> > I was wondering why i was getting so many streets with 45 degree
> > points
>
> I'm convinced USGS data does not have enough points at the 1 mile
> level for the mapfix or mkmapxxx join/scrunch algorithms to work.

APR REPLY: I agree. Certainly NEVER use SCRUNCH above 1.2

From martinbw@TEN-NASH.TEN.K12.TN.US Thu Dec 07 21:01:49 1995
Received: from ten-nash.ten.k12.tn.us (ten-nash.ten.k12.tn.us [198.146.3.220]) by
sys1.tapir.org (8.7.2/8.7.2) with SMTP id VAA13111 for <aprssig@tapir.org>; Thu, 7
Dec 1995 21:01:46 -0600 (CST)
Received: from oscar.tbr.state.tn.us (198.146.3.69) by TEN-NASH.TEN.K12.TN.US
(PMDF V4.3-10 #11463) id <01HYJFVDG7U8I3XTJB@TEN-NASH.TEN.K12.TN.US>; Thu,
07 Dec 1995 21:01:32 -0600 (CST)
Date: Thu, 07 Dec 1995 20:58:23 -0600
From: "Bruce W. Martin" <martinbw@TEN-NASH.TEN.K12.TN.US>
Subject: Re: EUROMIR + SAFEX FREQUENCY CLARIFICATION
To: aprssig@tapir.org
Message-id: <9512072058.AA23737@oscar.tbr.state.tn.us>

MIME-version: 1.0
X-Mailer: InterCon TCP/Connect II 2.3
Content-type: Multipart/Mixed;boundary=part_ACED05EE0095842B000000002
Content-transfer-encoding: 7BIT

--part_ACED05EE0095842B000000002
Content-Type: Text/Plain; charset=US-ASCII
Content-Disposition: Inline

> Demos Doulou sez:
> >
> > Good point, and we all need to be thinking of putting new services
> > on UHF and above. It is kind of dumb to be trying to put more and
> > more digital modes on 2 meters were there is very little room left
> > for anything.
>
> Note, however, that there are areas of the country where we'd need to
> move above 450 MHz, too. Channels for analog and digital are filling
> in most of Texas!
>
> > We have run out of good repeater pairs here in Pinellas, and
> > repeaters are showing up were they should not be, like there is
> > a repeater on 145.820 here in Florida, which should make the
> > satellite people very unhappy.
>
> Not to mention being illegal!
>
>
> 73, gerry--

Anybody considered the 220MHz band for APRS. 223.58MHz comes to mind. Almost no activity in this area on 220. It would seem that the MFJ data radio would be relatively easy to modify the design to work at 220. I could be wrong and there may be other issues that I have not considered. I know that the lack of commercial radios in this band makes it somewhat unpopular for some peoples use. Also for some digi owners (like me) new radios would be required along with other equipment. While I am not necessarily advocating this I think it is worth thinking about and possibly discussing.

73 de KQ4TV

--part_ACED05EE0095842B000000002
Content-Transfer-Encoding: Quoted-Printable
Content-Type: Text/Plain; charset=ISO-8859-1
Content-Disposition: Inline

--

* Bruce W. Martin Internet: martinbw@ten-nash.ten.k12.tn.us *
* 4558 Brooke Valley Dr. HAM Call: KQ4TV *
* Hermitage TN 37076-2650 ICBM/ALCM *

* Voice: (615) 872-9942 Address:36=B010'30"N/86=B035'30"W *=
* FAX/MODEM: (615) 885-4182 APRS:3610.50N/08635.50W *
* URL: http://www.tbr.state.tn.us/~martinbw/home.html *
* I have a 486DX33 to play games and run some HAM programs, *
* when I want to do serious work I use a Macintosh. *

--part_ACED05EE0095842B000000002--

From bruninga@nadm.navy.mil Thu Dec 07 21:05:16 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id VAA13552 for <aprssig@tapir.org>; Thu,
7 Dec 1995 21:05:13 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
WAA01210; Thu, 7 Dec 1995 22:05:38 -0500
Date: Thu, 7 Dec 1995 22:05:37 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:5005] Re: 144.390????
In-Reply-To: <199512072255.QAA25847@solar.cs.tamu.edu>
Message-ID: <Pine.SUN.3.91.951207215928.1100G-1000000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 7 Dec 1995, Gerald J Creager wrote:

> > APR WROTE: And all of those voice repeaters could be used simultaneously
> > for full duplex long distance 9600 baud data links. 70 channels on 2
> > meters too. It can be done, is simple, and does NOT impact current voice
> > users. See my 70chnls.2m README FILE...

>
> It cannot be simply done, and it does impact voice operations. And packet
> operations.

APR REPLY: I agree that it cant be done because of emotional and
narrowmindedness, but If you say that it impacts voice users, then Im not
sure you read the article. The impact is 0.1 (one tenth) of a second
delay in a voice users access... In practive, probably 1 second....
And if that is done when the repeater has been inactive, then there is no
impact. A voice user can KEY up and get the repeater in 1 second...
ANYTIME..

Most KERCHUNK filters are at least that long..

There is IMPACT on data users. This will ONLY work for BULK long
distance transmission of machine-to-machine traffic. SINCE VOICE will
always have priority, the data may be delayed for minutes orHOURS, But
when it goes, it GOES! All VOICE users will NEVER hear the data or the
HISS, unless they tuen to the INPUT of the repater...

From SGranth@aol.com Thu Dec 07 22:07:03 1995
Received: from emout05.mail.aol.com (emout05.mail.aol.com [198.81.10.37]) by
sys1.tapir.org (8.7.2/8.7.2) with SMTP id WAA15613 for <aprssig@tapir.org>; Thu, 7

Dec 1995 22:07:00 -0600 (CST)
From: SGranth@aol.com
Received: by emout05.mail.aol.com (8.6.12/8.6.12) id XAA11044 for
aprssig@tapr.org; Thu, 7 Dec 1995 23:06:27 -0500
Date: Thu, 7 Dec 1995 23:06:27 -0500
Message-ID: <951207214217_47779833@emout05.mail.aol.com>
To: aprssig@tapr.org
cc: SGranth@aol.com
Subject: Re: [APRSSIG:4962] APRS Information Needed (Answers)

Bob,

Please advise the syntax for getting these files via EMAIL from tapr.org
(or whatever server has them)?

Steve Grantham, N5DWU

P.S. Why are you shouting with all caps? Can we have it a bit more readable
please?

In a message dated 95-12-06 17:07:34 EST, you write:

>INCLUDED WITH ALL COPIES OF APRS IS A README DIRECTORY.
>LOOK IN THERE FOR THE FOLLOWING FILES:

>APRS.DOC
>OPS.TXT
>UHF-FREQ.TXT
>DIGIS.TXT
>PROTOCOL.TXT
>
>HOPE THIS HELPS...
>

From wmtv.tom.weeden@madison-business.com Thu Dec 07 22:50:24 1995
Received: from mail.holonet.net (root@guardian.holonet.net [198.207.169.11]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id WAA16978 for <APRSSIG@TAPR.ORG>; Thu, 7
Dec 1995 22:50:20 -0600 (CST)
From: wmtv.tom.weeden@madison-business.com
Received: from zat (root@localhost) by mail.holonet.net with UUCP
id KAA17433; Thu, 7 Dec 1995 10:56:42 -0800
Received: by ZAT (Searchlight Umail) with UUCP id AMAKCCDH for APRSSIG@TAPR.ORG;
Thu, 7 Dec 95 12:10:00 CST
To: APRSSIG@tapr.org
Subject: 145.820??
Message-ID: <MAIL.461D6338@madison-business.com>
Date: Thu, 7 Dec 95 11:06:00 CST
Organization: Madison Area Business Board

Demos, KR4US, wrote:

>We have run out of good repeater pairs here in Pinellas, and

>repeaters are showing up where they should not be, like there is a
>repeater on 145.820 here in Florida, which should make the satellite
>people very unhappy.

Huh? A repeater operating on 145.820 is ILLEGAL! Quoting FCC Rules, Part 97.205:

(b) A repeater may receive and retransmit only on the 10 m and shorter wavelength bands except the 28.0-29.5 MHz, 50.0-51.0 MHz, 144.0-144.5 MHz, 145.5-146.0 MHz, 431.0-433.0 MHz and 435.0-438.0 MHz segments."

I'm not an attorney, but I can read the rulebook.

Tom WJ9H/Madison

(Wisconsin: where 145.790 is coordinated to APRS, but
am willing to move for the betterment of humanity)

From barrettd@crpl.cedar-rapids.lib.ia.us Thu Dec 07 23:18:18 1995
Received: from CRPL.CEDAR-RAPIDS.LIB.IA.US (crpl.cedar-rapids.lib.ia.us [198.134.138.1]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id XAA17737 for <aprssig@tapir.org>; Thu, 7 Dec 1995 23:18:16 -0600 (CST)
From: barrettd@crpl.cedar-rapids.lib.ia.us
Message-Id: <199512080518.XAA17737@sys1.tapir.org>
Received: from ppp-112.cedar-rapids.lib.ia.us by CRPL.CEDAR-RAPIDS.LIB.IA.US with SMTP;
Thu, 7 Dec 1995 23:17:37 -0600 (CST)
X-Sender: barrettd@crpl.cedar-rapids.lib.ia.us
X-Mailer: Windows Eudora Light Version 1.5.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Thu, 07 Dec 1995 23:19:25 -0600
To: aprssig@tapir.org
Subject: Re: [APRSSIG:4995] Re: HELP with pico w/2nd serial port and

>>

>Thanks very much for suggestion.

>I don't find a ELO command on my Pico.

>

> 73 Scott

>

>

It's not in the regular manual but in the addendum sheet that went with the pico. Let me know what your firmware version is and I'll check mine, maybe a firmware upgrade deal. Paccomm will do free eeprom upgrades within a certain period.

barrett

From rwf@mindspring.com Fri Dec 08 00:14:20 1995
Received: from borg.mindspring.com (root@borg.mindspring.com [204.180.128.14]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id AAA23357 for <aprssig@tapir.org>; Fri, 8 Dec 1995 00:14:16 -0600 (CST)

Received: from rwf.mindspring.com [168.121.44.154] by borg.mindspring.com
with SMTP id BAA22523 for <aprssig@tapr.org>; Fri, 8 Dec 1995 01:14:04 -0500
Date: Fri, 8 Dec 1995 01:14:04 -0500
Message-Id: <199512080614.BAA22523@borg.mindspring.com>
X-Sender: rwf@mindspring.com
X-Mailer: Windows Eudora Version 2.1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: rwf <rwf@mindspring.com>
Subject: Re: [APRSSIG:5001] Re: GPS simultaneous parallel tracking

At 04:05 PM 12/7/95 -0600, you wrote:

>I'm hoping to start a project using APRS and airborne GPS in the Flying Club
>airplanes here as a poor-man's radar for the local tower... as a demonstration
>only. Just playing with the idea, though, rather than looking at it as a
>"real" venture. (no local radar feed, and we're below the horizon for ZHOU's
>nearest site)

But how in the world are you gonna get a COW thru that little tiny door in
the side of a Cessna-150

From KSwaggart@aol.com Fri Dec 08 01:22:27 1995
Received: from emout06.mail.aol.com (emout06.mail.aol.com [198.81.10.43]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id BAA26610 for <aprssig@tapr.org>; Fri, 8
Dec 1995 01:22:25 -0600 (CST)
From: KSwaggart@aol.com
Received: by emout06.mail.aol.com (8.6.12/8.6.12) id CAA15113 for
aprssig@tapr.org; Fri, 8 Dec 1995 02:21:53 -0500
Date: Fri, 8 Dec 1995 02:21:53 -0500
Message-ID: <951207223755_478403777@emout06.mail.aol.com>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:4991] 100K maps

The only difference between MKMAPHK1 and MKMAPKKE, other than the menu with
additional features, is that it pickup streams automatically at 2 miles and
below. That could account for the difference. Suppose streams should always
be a menu choice, too. Probably should keep both programs around for now.

73, Ken, W7KKE
kswaggart@aol.com

From weather@xnet.com Fri Dec 08 01:27:22 1995
Received: from flood.xnet.com (flood.xnet.com [198.147.221.35]) by sys1.tapr.org
(8.7.2/8.7.2) with ESMTP id BAA26632 for <APRSSIG@tapr.org>; Fri, 8 Dec 1995
01:27:20 -0600 (CST)
Received: from weather.xnet.com by flood.xnet.com (8.7/XNet-1.4R) with SMTP
id BAA27104 for <APRSSIG@tapr.org>; Fri, 8 Dec 1995 01:20:44 -0600 (CST)
Date: Fri, 8 Dec 1995 01:20:44 -0600 (CST)
Message-Id: <199512080720.BAA27104@flood.xnet.com>

X-Sender: weather@quake.xnet.com
X-Mailer: Windows Eudora Light Version 1.5.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: APRSSIG@tapr.org
From: "Ronald P. Malinowski, Jr" <weather@xnet.com>
Subject: Ultimeter II packet software

Just writing in regards to a software which was used in conjunction with with the APRS network that allowed people to connect to get data like high wind speed and such, it was shareware and I wrote the author on packet but no response, I was looking for the latest version I was interested in getting the latest copy but does anyone know how to or who created this software? It was a blue screen type deal, sent data on a regular basis in APRS format?

Also if Ed Rogers, N9LCI reads this message, could you drop me a line, I am trying to reach you.

Ron

From gwyn@paccomm.com Fri Dec 08 05:31:29 1995
Received: from paccomm.com ([163.125.30.1]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id FAA02238 for <aprssig@tapr.org>; Fri, 8 Dec 1995 05:31:25 -0600 (CST)
Date: Fri, 8 Dec 1995 05:31:25 -0600 (CST)
From: gwyn@paccomm.com
Message-Id: <199512081131.FAA02238@sys1.tapr.org>

From gerry@cs.tamu.edu Fri Dec 08 08:24:36 1995
Received: from cs.tamu.edu (clavin.cs.tamu.edu [128.194.130.106]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id IAA06703 for <aprssig@tapr.org>; Fri, 8 Dec 1995 08:24:32 -0600 (CST)
Received: from solar.cs.tamu.edu (2961@solar.cs.tamu.edu [128.194.132.1]) by cs.tamu.edu (8.6.10/8.6.4) with ESMTP id IAA08348 for <aprssig@tapr.org>; Fri, 8 Dec 1995 08:23:57 -0600
From: Gerald J Creager <gerry@cs.tamu.edu>
Received: (gerry@localhost) by solar.cs.tamu.edu (8.6.10/8.6.4) id IAA08969 for aprssig@tapr.org; Fri, 8 Dec 1995 08:23:51 -0600
Message-Id: <199512081423.IAA08969@solar.cs.tamu.edu>
Subject: Re: [APRSSIG:5016] Re: GPS simultaneous parallel tracking
To: aprssig@tapr.org
Date: Fri, 8 Dec 1995 08:23:50 -0600 (CST)
In-Reply-To: <199512080614.BAA22523@borg.mindspring.com> from "rwf" at Dec 8, 95 00:18:26 am
X-Mailer: ELM [version 2.4 PL24]
Content-Type: text

rwf sez:

>

> But how in the world are you gonna get a COW thru that little tiny door in

> the side of a Cessna-150

Oh! You don't. You've got to use at LEAST a 182!

gerry

From WB4LTF@aol.com Fri Dec 08 09:31:55 1995
Received: from mail04.mail.aol.com (mail04.mail.aol.com [152.163.172.53]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id JAA09354 for <aprssig@tapr.org>; Fri, 8
Dec 1995 09:31:52 -0600 (CST)
From: WB4LTF@aol.com
Received: by mail04.mail.aol.com (8.6.12/8.6.12) id KAA01821 for aprssig@tapr.org;
Fri, 8 Dec 1995 10:31:20 -0500
Date: Fri, 8 Dec 1995 10:31:20 -0500
Message-ID: <951208103119_48219803@mail04.mail.aol.com>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:4994] RE: APRS Symbols

JUST WHAT WE NEED!

Something else for people to play with and clutter up the screens!!!

wb4ltf@aol.com

From jaykq4ms@nando.net Fri Dec 08 09:38:22 1995
Received: from merlin.nando.net (root@merlin.nando.net [152.52.2.2]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id JAA09834 for <aprssig@tapr.org>; Fri, 8
Dec 1995 09:38:13 -0600 (CST)
From: jaykq4ms@nando.net
Received: from jaykq4ms.nando.net (grail1217.nando.net) by merlin.nando.net (4.1/
davel-nando/dec93)
id AA28694; Fri, 8 Dec 95 10:37:40 EST
Date: Thu, 7 Dec 95 18:55:08 EST
Subject: RE: [APRSSIG:4938] Re: GPS simultaneous parallel tracking
To: aprssig@tapr.org
X-Mailer: Chameleon - TCP/IP for Windows by NetManage, Inc.
Message-Id: <Chameleon.4.01.2.951207185951.jaykq4ms@>
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; CHARSET=US-ASCII

Hi Terry, Name here is Jay, located in Raleigh, NC. What airline do you
work for, if any?? I'm a aircraft mechanic for USAir here in Raleigh and I
heard a rumor that USAir had a STC to install GPS in our DC-9 series. Mind
you, this is only a rumor and I heard it about a year ago so I don't know
the status as of now. I keep forgetting to call our avionics dept to check
on it. If you hear of anything, let me know.

73 es CUL

Jay Netterville KQ4MS

Raleigh, NC

jaykq4ms@nando.net

jaykq4ms@aol.com

APRS 35.49.42N/078.35.37W

E-mail: jaykq4ms
Date: 09/24/95
Time: 02:25:03

This message was sent by Chameleon

From dwetzel@acs.uswest.com Fri Dec 08 09:43:26 1995
Received: from uswat.advtech.uswest.com (uswat.advtech.uswest.com [130.13.16.1])
by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id JAA09930 for <aprssig@tapir.org>; Fri,
8 Dec 1995 09:43:22 -0600 (CST)
From: dwetzel@acs.uswest.com
Received: from easthub ([151.117.26.86]) by uswat.advtech.uswest.com (8.7.1/8.7.1)
with SMTP id IAA11368 for <aprssig@tapir.org>; Fri, 8 Dec 1995 08:43:16 -0700 (MST)
Received: by easthub.mnet.uswest.com (M-Net Hub.950111)
Received: from acmspgw1.mnet.uswest.com by acs.uswest.com (5.x/SMI-SVR4)
id AA08344; Fri, 8 Dec 1995 09:43:13 -0600
Received: from ccMail by acmspgw1.mnet.uswest.com
(IMA Internet Exchange 1.04b beta) id 0c853990; Fri, 8 Dec 95 09:02:49 -0600
Mime-Version: 1.0
Date: Fri, 8 Dec 1995 08:45:38 -0600
Message-Id: <0c853990@acmspgw1.mnet.uswest.com>
Subject: Re: [APRSSIG:5016] Re: GPS simultaneous parallel tracking
To: aprssig@tapir.org
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Description: cc:Mail note part

Maybe a new conformal cow-pod.....?

;-)

Subject: [APRSSIG:5016] Re: GPS simultaneous parallel tracking
From: aprssig@tapir.org at Internet-Mail
Date: 12/8/95 0:18

At 04:05 PM 12/7/95 -0600, you wrote:

>I'm hoping to start a project using APRS and airborne GPS in the Flying Club
>airplanes here as a poor-man's radar for the local tower... as a demonstration
>only. Just playing with the idea, though, rather than looking at it as a
>"real" venture. (no local radar feed, and we're below the horizon for ZHOU's
>nearest site)

But how in the world are you gonna get a COW thru that little tiny door in
the side of a Cessna-150

From pbunsol@cati.csufresno.edu Fri Dec 08 11:13:39 1995
Received: from CATI.CSUFresno.EDU (caticsuf.cati.csufresno.edu [129.8.100.15]) by

sys1.tapir.org (8.7.2/8.7.2) with SMTP id LAA13381 for <aprssig@tapir.org>; Fri, 8 Dec 1995 11:13:35 -0600 (CST)
Received: (pbunsol@localhost) by CATI.CSUFresno.EDU (8.6.10/8.6.5) id JAA07120 for aprssig@tapir.org; Fri, 8 Dec 1995 09:12:39 -0800
Date: Fri, 8 Dec 1995 09:12:39 -0800
From: Pat Bunsold <pbunsol@cati.csufresno.edu>
Message-Id: <199512081712.JAA07120@CATI.CSUFresno.EDU>
X-Mailer: idsmail 4.0
To: aprssig@tapir.org
Subject: 145.790

Might as well throw my comments in on this ongoing debate! Which is more logical? Have thousands of hams all over the world QSY, buying new crystals, retuning cavities, etc.. OR having the Shuttle QSY 5Khz. I just ordered a new MFJ xtal rig for 145.790 and have no intention on buying more rocks for it. Also, moving to 145.785 is out of the question in Southern California as a rather cranky Simplex group operates on that freq and they are already outraged about the packet QRM up 5 KHz. So, I say LET THE SHUTTLE QSY and we APRS'rs will STAY ON 145.790!!!!!!!

From alanwc7r@primenet.com Fri Dec 08 11:47:40 1995
Received: from mailhost1.primenet.com (mailhost1.primenet.com [198.68.32.51]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id LAA14329 for <aprssig@tapir.org>; Fri, 8 Dec 1995 11:47:36 -0600 (CST)
Received: from usr4.primenet.com (root@usr4.primenet.com [198.68.32.14]) by mailhost1.primenet.com (8.7.1/8.7.1) with ESMTP id KAA10374 for <aprssig@tapir.org>; Fri, 8 Dec 1995 10:47:26 -0700 (MST)
Received: from Primenet.primenet.com (ip202.prc.primenet.com [204.212.56.202]) by usr4.primenet.com (8.7.1/8.7.1) with SMTP id KAA21252 for <aprssig@tapir.org>; Fri, 8 Dec 1995 10:47:25 -0700 (MST)
Message-Id: <199512081747.KAA21252@usr4.primenet.com>
X-Sender: alanwc7r@mailhost.primenet.com
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Fri, 08 Dec 1995 10:47:09 -0700
To: aprssig@tapir.org
From: alanwc7r@primenet.com (Alan Unangst)
Subject: Windows 95 (the great beast) and APRS 7.4 Lock-Up

While running APRS 7.4c the other day in the DOZ mode on Win 95 I had a lock-up when I went back to it. Has any one else notice this phenomenon, or was it just a "burp" in Win 95 that happened to correspond at the time I was using APRS 7.4c??

Thanks and 73....Alan, WC7R

From z002594b@bcfreenet.seflin.lib.fl.us Fri Dec 08 18:04:28 1995
Received: from bcfreenet.seflin.lib.fl.us (bcfreenet.seflin.lib.fl.us [198.78.48.20]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id SAA28160 for <aprssig@tapir.org>; Fri, 8 Dec 1995 18:04:22 -0600 (CST)
Received: (from z002594b@localhost) by bcfreenet.seflin.lib.fl.us (8.6.12/8.6.12) id TAA14913; Fri, 8 Dec 1995 19:02:40 -0500

Date: Fri, 8 Dec 1995 19:02:39 -0500 (EST)
From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Subject: Re: [APRSSIG:5004] Re: 145.80 vs 145.79 SOLVED!
To: aprssig@tapr.org
cc: aprssig@tapr.org
In-Reply-To: <Pine.3.89.9512071401.A31602-0100000@gp.magick.net>
Message-ID: <Pine.3.89.9512081819.A9178-0100000@bcfreenet.seflin.lib.fl.us>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

The cool solution will become rather hot when any lid with an axe to grind finds that he can shut down the net. I'd suggest more thinking on this one before incorporating remote turn-off features in the software.

William Manley
z002594b@bcfreenet.seflin.lib.fl.us

On Thu, 7 Dec 1995, Sean Smithers wrote:

> Pretty cool solution!
>
> On Wed, 6 Dec 1995, Bob Bruninga wrote:
>
> > On Wed, 6 Dec 1995, Fred Quarles suggested adding Spacecraft tracking
> > to APRS (since it is already in APRtrak) and have APRS go to a MINIMIZE
> > mode during a pass. This idea is the basis for a PERMANENT SOLUTION!

From bruninga@nadm.navy.mil Fri Dec 08 19:15:09 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id TAA00669 for <aprssig@tapr.org>; Fri,
8 Dec 1995 19:15:07 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
UAA21644; Fri, 8 Dec 1995 20:15:31 -0500
Date: Fri, 8 Dec 1995 20:15:30 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5026] Re: 145.80 vs 145.79 SOLVED!
In-Reply-To: <Pine.3.89.9512081819.A9178-0100000@bcfreenet.seflin.lib.fl.us>
Message-ID: <Pine.SUN.3.91.951208201402.21535E-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 8 Dec 1995, William Manley wrote:

> The cool solution will become rather hot when any lid with an axe to
> grind finds that he can shut down the net. I'd suggest more thinking on
> this one before incorporating remote turn-off features in the software.

NOT TO WORRY: It will be a protected process. And of course I cant
discuss the details...

From kc5ejk@onramp.net Fri Dec 08 20:23:06 1995

Received: from mailhost.onramp.net (mailhost.onramp.net [199.1.11.3]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id UAA03045 for <aprssig@tapir.org>; Fri, 8 Dec 1995 20:23:03 -0600 (CST)
Received: from [199.1.11.128] (dal28.onramp.net [199.1.11.128]) by mailhost.onramp.net (8.6.12/8.6.5) with SMTP id UAA03068 for <aprssig@tapir.org>; Fri, 8 Dec 1995 20:22:57 -0600
Message-Id: <v02130500aceea0dacd8e@[199.1.11.127]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Fri, 8 Dec 1995 20:23:37 -0600
To: aprssig@tapir.org
From: kc5ejk@onramp.net (Robert Winingham)
Subject: GPS KPC-3 TRACKER connect

What are the settings to prevent radio connections to a KPC-3 GPS tracker. ??

The SYSOP remote is protected by a password
but what about the mycall and mycall-1 BBS connections.

If a connection is done to the mycall then raw GPS NMEA data is leaked over the air waves once a sec.

I Think I saw something here and I searched all 5026 APRS SIG messages but I could not find an answer.

Thanks

73.

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

From gerry@cs.tamu.edu Sat Dec 09 08:12:16 1995
Received: from cs.tamu.edu (clavin.cs.tamu.edu [128.194.130.106]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id IAA25414 for <aprssig@tapir.org>; Sat, 9 Dec 1995 08:12:14 -0600 (CST)
Received: from solar.cs.tamu.edu (2961@solar.cs.tamu.edu [128.194.132.1]) by cs.tamu.edu (8.6.10/8.6.4) with SMTP id IAA02362 for <aprssig@tapir.org>; Sat, 9 Dec 1995 08:11:35 -0600
From: Gerald J Creager <gerry@cs.tamu.edu>
Received: (gerry@localhost) by solar.cs.tamu.edu (8.6.10/8.6.4) id IAA26839 for aprssig@tapir.org; Sat, 9 Dec 1995 08:11:25 -0600
Message-Id: <199512091411.IAA26839@solar.cs.tamu.edu>
Subject: Re: [APRSSIG:5024] 145.790
To: aprssig@tapir.org
Date: Sat, 9 Dec 1995 08:11:25 -0600 (CST)
In-Reply-To: <199512081712.JAA07120@CATI.CSUFresno.EDU> from "Pat Bunsold" at Dec 8, 95 11:16:04 am
X-Mailer: ELM [version 2.4 PL24]
Content-Type: text

Pat Bunsold sez:

>

> Might as well throw my comments in on this ongoing debate! Which is more logical? Have thousands of hams all over the world QSY, buying new crystals, retuning
> cavities, etc.. OR having the Shuttle QSY 5Khz. I just ordered a new MFJ
> xtal rig for 145.790 and have no intention on buying more rocks for it. Also,
> moving to 145.785 is out of the question in Southern California as a rather
> cranky Simplex group operates on that freq and they are already outraged about
> the packet QRM up 5 Khz. So, I say LET THE SHUTTLE QSY and we APRS'rs will STAY
> ON 145.790!!!!!!!

I'll assume that you missed my missive on just what it takes to "LET THE SHUTTLE QSY" and recap.

1. A series of international agreements, albeit informal.
2. A series of NASA agreements, significantly more formal.
3. A new set of EPROMS for the SAREX talkies.
4. A new set of testing for the SAREX radios for EMI/EMC.
5. Verification of the actual frequencies programmed into each ROM on the bench.
6. Rewriting a bunch of technical documentation for NASA.
7. Rewriting a section in the Crew Procedures for the frequency list.
8. Changing the Console handbook.

It's probably missing a few items... I participated in a lot of these activities. the LAST time we moved SAREX to accommodate folks. The work to add 145.80 to the Shuttle downlink list has taken several years to achieve. The selection of 145.79 was not made as a considered selection in conjunction with a spectrum management or frequency coordination group.

NOW. Let me say something else. THERE SHOULD BE NO PROBLEM. This assumes you will get with someone with real test gear and set your MFJ radio up properly with your TNC. That means a maximum deviation of about 3 khz, which will work. Then, there should be little or no interaction between the two services. AMSAT has already noted some areas where attempting to listen to the AO-13 telemetry beacon on 145.809 was difficult or impossible due to 1200 baud packet activity on 145.79. This suggests that there are folks out there with significantly wider transmissions than either needed, or dictated by good engineering practice.

73, gerry

--

Gerry Creager N5JXS
gerry@cs.tamu.edu

* SAREX Co-Investigator
* A little radio that lets kids talk
* to astronauts, and smile

From horzepa@gdc.com Sat Dec 09 08:14:59 1995
Received: from gate3.gdc.com (gate3.gdc.com [199.98.150.5]) by sys1.tapir.org
(8.7.2/8.7.2) with SMTP id IAA25467 for <aprssig@tapir.org>; Sat, 9 Dec 1995
08:14:56 -0600 (CST)
Received: from mailhost.gdc.com (esun19.gdc.com) by gate3.gdc.com with SMTP id
AA03747
(5.67b/IDA-1.5 for <aprssig@tapir.org>); Sat, 9 Dec 1995 09:14:44 -0500
Received: from esun405.gdc.com by mailhost.gdc.com (4.1/GDC-eInternal/D-) via SMTP
id AA28149; Sat, 9 Dec 95 09:14:44 EST
From: horzepa@gdc.com (Stan Horzepa)
Message-Id: <9512091414.AA28149@mailhost.gdc.com>
Subject: Geminids Packet Meteor Scatter Test
To: aprssig@tapir.org
Date: Sat, 9 Dec 1995 09:14:42 -0500 (EST)
X-Mailer: ELM [version 2.4 PL20]
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

Just a reminder that the Geminids Packet Meteor Scatter Test is
scheduled for December 14, 0000-2400 UTC (see December QST, page
100 for details).

The first test during the August Perseids meteor shower was very
interesting with only a limited number of participants. I expect
that the December test will be better because the advanced publicity
in QST should attract more participants.

Happy trails to you,

Stan, WA1LOU

--

Stan Horzepa	~	phone:	203-758-1811 x7369
Technical Writing Supervisor	~	email:	horzepa@gdc.com
General DataComm (MODEMS 'R' US)	~	radio:	WA1LOU
P. O. Box 1299	~	packet radio mail:	WA1LOU@N4GAA
Middlebury, CT 06762-1299	~	TCP/IP packet radio:	44.88.4.8

~~~~~ What! - Me Worry? ~~~~~

From horzepa@gdc.com Sat Dec 09 08:16:11 1995  
Received: from gate3.gdc.com (gate3.gdc.com [199.98.150.5]) by sys1.tapir.org  
(8.7.2/8.7.2) with SMTP id IAA25490 for <aprssig@tapir.org>; Sat, 9 Dec 1995  
08:16:08 -0600 (CST)  
Received: from mailhost.gdc.com (esun19.gdc.com) by gate3.gdc.com with SMTP id  
AA03751  
(5.67b/IDA-1.5 for <aprssig@tapir.org>); Sat, 9 Dec 1995 09:16:03 -0500  
Received: from esun405.gdc.com by mailhost.gdc.com (4.1/GDC-eInternal/D-) via SMTP  
id AA28230; Sat, 9 Dec 95 09:16:03 EST  
From: horzepa@gdc.com (Stan Horzepa)  
Message-Id: <9512091416.AA28230@mailhost.gdc.com>  
Subject: APRS covered



To: aprssig@tapr.org  
Date: Sat, 9 Dec 1995 09:16:01 -0500 (EST)  
X-Mailer: ELM [version 2.4 PL20]  
Mime-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit

I just saw the cover of my new book (Practical Packet Radio) and was very pleased that the publisher (ARRL) chose to design the cover around an APRS screen shot in full color. It looks real sharp!

73,

Stan, WA1LOU

--

|                                  |   |                      |                    |
|----------------------------------|---|----------------------|--------------------|
| Stan Horzepa                     | ~ | phone:               | 203-758-1811 x7369 |
| Technical Writing Supervisor     | ~ | email:               | horzepa@gdc.com    |
| General DataComm (MODEMS 'R' US) | ~ | radio:               | WA1LOU             |
| P. O. Box 1299                   | ~ | packet radio mail:   | WA1LOU@N4GAA       |
| Middlebury, CT 06762-1299        | ~ | TCP/IP packet radio: | 44.88.4.8          |

~~~~~ What! - Me Worry? ~~~~~

From schiers@ibm.net Sat Dec 09 08:20:58 1995
Received: from smtp-gw01.ny.us.ibm.net ([165.87.194.252]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id IAA25825 for <aprssig@tapr.org>; Sat, 9 Dec 1995 08:20:56 -0600 (CST)
Received: (from uucp@localhost) by smtp-gw01.ny.us.ibm.net (8.6.9/8.6.9) id OAA34020 for <aprssig@tapr.org>; Sat, 9 Dec 1995 14:20:53 GMT
Message-Id: <199512091420.OAA34020@smtp-gw01.ny.us.ibm.net>
Received: from slip230-82.mo.us.ibm.net(129.37.230.82) by smtp-gw01.ny.us.ibm.net via smap (V1.3mjr)
id smaa9EDFW; Sat Dec 9 14:20:46 1995
Date: Fri, 08 Dec 95 23:58:29 EST
From: schiers@ibm.net (hasan schiers)
Reply-To: schiers@ibm.net (hasan schiers)
To: aprssig@tapr.org
X-Mailer: hasan schiers's PMMail v1.1
Subject: Re: [APRSSIG:4951] 145.80 vs 145.79 SOLVED!

On Wed, 6 Dec 1995 10:17:43 -0600 (CST) you wrote:

>I can put a MINIMIZE function in all APRS software that is capable of
>being commanded to MINIMIZE non-essential APRS packets during a
>pass as follows:

(much deleted)

This looks like an EXCELLENT idea...even addresses the "ain't nobody turning my station off" mentality with an over ride. A very promising proposal and much more cost/resource/effort effective than changing

frequencies. An "A" for creativity!

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

From largriff@onramp.net Sat Dec 09 08:33:27 1995
Received: from mailhost.onramp.net (mailhost.onramp.net [199.1.11.3]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id IAA26283 for <aprssig@tapr.org>; Sat, 9
Dec 1995 08:33:25 -0600 (CST)
Received: from lub08.onramp.net (lub08.onramp.net [199.1.172.136]) by
mailhost.onramp.net (8.6.12/8.6.5) with SMTP id IAA17988 for <aprssig@tapr.org>;
Sat, 9 Dec 1995 08:33:20 -0600
Received: by lub08.onramp.net with Microsoft Mail
id <01BAC610.DD300C80@lub08.onramp.net>; Sat, 9 Dec 1995 08:32:23 -0600
Message-ID: <01BAC610.DD300C80@lub08.onramp.net>
From: Larry Griffin <largriff@onramp.net>
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Subject: RE: [APRSSIG:5028] GPS KPC-3 TRACKER connect
Date: Sat, 9 Dec 1995 08:27:00 -0600
MIME-Version: 1.0
Content-Type: multipart/mixed; boundary="----=_NextPart_000_01BAC610.DD519E40"

-----=_NextPart_000_01BAC610.DD519E40
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable

I set CMS PBBS to force anyone who connects to MYCALL to end up in the =
PBBS where I have info about my setup and APRS in general. It also =
circumvents the problem you mentioned.

From: Robert Winingham[SMTP:kc5ejk@onramp.net]
Sent: Friday, December 08, 1995 2:33 PM
To: aprssig@tapr.org
Subject: [APRSSIG:5028] GPS KPC-3 TRACKER connect

What are the settings to prevent radio connections to a KPC-3 GPS =
tracker. ??

The SYSOP remote is protected by a password
but what about the mycall and mycall-1 BBS connections.

If a connection is done to the mycall then raw GPS NMEA data is leaked
over the air waves once a sec.

-----=_NextPart_000_01BAC610.DD519E40
Content-Type: application/ms-tnef
Content-Transfer-Encoding: base64

eJ8+IhgOAQaQCAAEAAAAAAAAABAAEAAQeQBgAIAAAA5AQAAAAAAAAADoAAENGAAAgAAAAIAAgABBJAG
AAwBAAAABAAAAADAAAAAAMAADADAAAAACwAPDgAAAAACAf8PAQAAAD8AAAAAAAAAAgSsfpL6jEBmdbgDd

AQ9UAgAAAAABhcHJzc2lnQHRhcHIub3JnAFNNVFAAYXByc3NpZ0B0YXByLm9yZWAAHgACMAEAAAAAF
AAAAU01UUAAAAAAAEAMwAQAAABEAAAABhcHJzc2lnQHRhcHIub3JnAAAAAAMAFQwBAAAAAwD+DwYA
AAAEAAEwAQAAABMAAAANyXByc3NpZ0B0YXByLm9yZycAAAAIBCzABAAAAFgAAAFNNVFA6QVBSU1NJ
R0BUQVBSLk9SRwAAAAAAMADkAAAAACwBA0gEAAAAACAfYPAQAAAAQAAAAAAADEy4BCIAHABgAAABJ
UE0uTW1jcm9zb2Z0IE1haWwuTm90ZQAxCaEEgAEALQAAAFJF0iBbQVBSU1NJRzo1MDI4XSBHUFMg
S1BDLTMgVFJBQ0tFU0tFb25uZWNOAGkMAQWAAwA0AAAAywcMAAKACAAbAAAAABgAQAEggAMADgAA
AMsHDAAJAAgAFwAXAAYAPQEBCYABACEAAAAA4QkQ3RURFQzAXMzJDRjExODE0NzQ0NDU1MzU0MDAw
MADtBgEDkAYAAeAQAAABIAAAALACMAAAAAAAMAjgAAAAAACwApAAAAAADADYAAAAAAEAAOQCAs0pn
Qsa6AR4AcAABAAAAALQAAAFJF0iBbQVBSU1NJRzo1MDI4XSBHUFMgS1BDLTMgVFJBQ0tFU0tFb25u
ZWNOAAAAAABcQABAAAAFgAAAAAG6xkXJn0eZt14wyARHPgUdERVNUAAAAAB4AHgWBAAAAABQAAAFNN
VFAAAAAAHgAfDAEAAAAAUAAAAbGFyZ3JpZmZAb25yYw1wLm5ldAADAAAYQyHgQ1gMABx08AAHGAIE
EAEAAABIAAAASVNFVENNU1BCQ1NUT0ZPUkNFQU5ZT05FV0hPQ090TkVDVFNUT01ZQ0FMTFRPRU5E
VVBjTlRIRVBQ0tFb25uZWNOAGkMAQWAAwA0AAAAywcMAAKACAAbAAAAABgAQAEggAMADgAA
AQkQAQAAAAOYCAADiAgAA3QQAAXaRnWvBbyQ/wAKAQ8CFQK0BesCgWBQAvIJAgBjaArAc2V0MjcG
AAbDAoMyA8UCAHByQnER4nN0Z0CgZn3AuQHEwKafQqACM8J2Tvxfg8yNTUCgAqBDdELY0BuZzEw
MxRQCwoUUUUL8mMAQCBJIBGxICJDBefQQkIF8HRvQiACEHJjZSAACHzAiAcUHdoG/AFoG4csAxj
dAQgG+FNWUNBDExMG9IJ8GQgdXD2IAuAG9BoHFAbkxzgBJD3HFAa8BGAdhxQC4ACEBxg5QbgdQVA
bXkbAh7BAHCxHqBBUFI8B7xZwnwcwSQB0AuIBrGBUAHQHP1HQFpHDB1bSBQAJAdkVsMRNQBwJg
E+AgHJB1yyEgJBfPHKfKLgqFCosgbGkxODAC0WkteDE0NA3wDNA4wtZMZ42CqADYBPQHXAglSoH
rwqHKLsMMCMGRgNh0is0tymGDIIH8WIEkAVAVwuABQuAZxGAbVtTTVQAUDprYzVlamtGQAIgIsBt
cC4csHT+XSqV70GYAIwL08t+yyggG1kYXksIEQFkCMT4C7hIDA4NcAx0WA5NSAy0h1QG4BNszFP
K71Ubz0PLfthE1CxBBBpZ0ABkBNQLgWwXmc3fzJedWJqHWE5nwUt+1siAlNJRzo1gDAy0F0gR1AF
8BBLUEMtNzBUUkFwQ0tFUh0WJg8nEzPuNiiHGKUpHlRgCMxH+G/HyIRsSWQGRAdkxNQZSQCeIAi
wGQ1oB0WJaEdk2HLQeVBSnQiwGNrBJAi8BQ/P0NMVB8xU11T/E9QSEAT4CmhHuAEICmFeQmAIGIh
QEmgCrAEHEf1BbBkCoViIQEc4EZiIOP7HyIhMGMHQAMgIcJQRCfQziAboki5Jf1JJZkmRSLj9TPJk
HKIb4VAJHyEDoCLAwfwgQbJ0TUVBVBGLdJoE0BJ0BhSqB0l8gU08FwB8iC3AFwHcgQQQgAiBb
HEIbAWM19hUxAFrAAAAADABAQAAAAAAMAERABAAAAQAAHMCCP5/RBxroBQAAIMCCP5/RBxroBHGA9
AAEAAAAFAAAAUkU6IAAAAAAXQg==

----- =_NextPart_000_01BAC610.DD519E40--

From bruninga@nadn.navy.mil Sat Dec 09 09:08:24 1995
Received: from greatlakes.nadn.navy.mil (greatlakes.nadn.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id JAA27313 for <aprssig@tapr.org>; Sat,
9 Dec 1995 09:08:21 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadn.navy.mil (8.6.12/8.6.12) id
KAA23026; Sat, 9 Dec 1995 10:08:45 -0500
Date: Sat, 9 Dec 1995 10:08:44 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
To: aprssig@tapr.org
Subject: Final 100k steps
Message-ID: <Pine.SUN.3.91.951209100506.23009A-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Here is a file I wrote to help map builders build a more "seamless" system
of maps from their 1 mile maps extracted from the 100k CD ROMs:
----SNIP-----

MAPS100K.txt

FINAL NOTES ON BUILDING 100K MAPS

In just the last month, the MKMAPHK.exe program written by KE4XF,
Jack Cavanaugh, has made it possible for anyone with the \$32 USGS CD

ROM for their area to make street level maps. See my MAPS-CD.txt file and the details in MKMAPHK.txt. Bill Knolle, KE4EER was the first to produce prodigious numbers of maps and developed the technique for just gridding the desired city into slightly overlapping 1 mile maps (2 mile center-to-center). The result is a predictable number of contiguous maps that give street level detail anywhere in the city. But this IS ONLY THE BEGINNING TO MAKING A USEFUL MAP SYSTEM.

The problem is that the 1 mile maps are not even viewable unless you zoom to the 1 mile range and happen to hit the exact center of the map. You have a better chance of getting a map to come up at the .5 mile scale, but only if you are still reasonably near the center of one of these maps. If you are on the border between any two maps, you will NEVER see the maps, because APRS cannot find in the maplist, a map which can completely contain your screen. This is very frustrating to users to have the detail more or less done, but to not be able to access it in a seamless maner. This file describes what I do next to build a seamless map system. There are sort of two approaches, but a mix of the two is probably the best.

BRUTE FORCE: This method takes the existing grid of adjacent 1 mile maps and creates a completely new grid of 1 mile maps whose centers are at the CORNERS of the original grid of maps. The process uses MAPFIX and the alt-IMPORT command to import streets from adjacent maps into each of these new maps. This covers the corners of the original grid, but you still have no overlap at the top and bottom centers of the original grids. This requires yet another grid offset by 1/2 mile up and down. (There is plenty of left/right overlap built into the original maps due to the horizontal aspect ratio used by MKMAPHK.) This process will result in tripling the original number of maps...

JOINING SMALLER MAPS: This method looks for adjacent maps that are relatively small (7 to 15K) that can be combined with others and still stay below the 30 k limit. Because MKMAPHK makes maps of the same aspect ratio as the PC screen, the optimum joining of maps to give a larger map with the same aspect ratio is to combine four in a quad. Around the edges of your area, you can also combine maps vertically and horizontally. Then move the center and range of this combined map further outside of the area so that the white box does border the combined maps perfectly. I have combined as many as 4 horizontal 1 mile maps into a big 4 mile map centered 2 miles north of town. Similarly I make a 4 mile map to the south and east and west. Although most of these map areas are blank, the 4 combined 1 mile maps do show up now at the 4 mile range when your cursor is "north" of town. This always works around the edge of your city or town, because all of the maps generated in these areas have significantly fewer points.

In the center of a city or town, this will rarely work because of the density of detail. But you may be able to still join at least two adjacent maps. Although the resulting 2 mile map will have lots of blank space at the edges, this central map may be listed first in the MAPLIST, so that other laps will cover those areas when the user ZOOMS. Whenever you use a map with large blank areas, always be sure

that the maps that fill in those areas are listed LATER in the maplist.

OVERLAING INTO A BIGGERMAP: MKMAPHK can make 4 and 8 mile maps, but it automatically leaves out most of the finer detail. If your 4 or 8 mile map has room, use the ctrl-OVERLAY feature in MAPFIX to temporarily overlay each of the 1 mile maps to look for any gray level main thoroughfares that need to be drawn into the bigger maps. Look for winding roads or long straight ones that locals will recognize. Use the alt-NEW and alt-ADD commands to rapidly draw in these streets. Do not worry about getting EVERY point, just a good approximation of these thoroughfares, since this larger map will only be visible at the larger scale. The exact detail will appear as the user zooms in. Only a few of these thoroughfares are needed to give the user the visual structure of sub-divisions and known landmarks.

All of these methods use either the IMPORT or the OVERLAY feature of MAPFIX. Actually these two commands are really the same routine. The IMPORT brings points INTO the current map under construction, whereas the OVERLAY only draws them on the existing screen so you can SEE the points temporarily. This is so you can add more features to your working map by drawing over selected features in the OVERLAYED map (without having to IMPORT them ALL). Once you have given the file name for either command, you can re-use the same map over and over again with a single keystroke. This is particularly valuable with the Overlay command. To control the points that you want to IMPORT, the WHITE box representing the map CENTER and RANGE is a very powerful tool. The IMPORT function will ONLY import points that will fit INSIDE the white BOX where ever it is. You may move the box edges around anywhere you want with the alt-CENTER and alt-RANGE command.

When building a combined map by IMPORTING adjacent horizontal maps, there will usually be significant horizontal overlap. To avoid the waste of this duplication here is the process I use.

- 1) Load the first map
- 2) ^OVERLAY the next map to see where it is going to fall
- 3) Use alt-C and alt-R to move the white box so that one of its edges makes a clean line just inside the existing map edge
- 4) Now hit alt-IMPORT and the second map comes in just up to the white line with minimal overlap. Now there will only be a few streets that duplicate and they can be removed using the FIND and DELETE commands.

SUMMARY: Once you have finished generating your original 100k map grid, and can see the general density of the streets throughout the city or town, you can use the above techniques to build your maps into a seamless system of maps that in most cases is transparent to the user. This probably takes as long or longer than the original MKMAPHK process, but it is ESSENTIAL for user satisfaction. As an example, I took the 12 maps generated by KE4EER for Hattiesburg and was able to combine them into only 4 maps. A northern and southern 4 mile map, and two middle east and middle west 2 mile maps. This combined with the major street thoroughfares that I overlayed into his original 8 mile map makes a

pretty good seamless map system.

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

From n2czf@gate.net Sat Dec 09 09:26:26 1995
Received: from mail1.gate.net (mail1.gate.net [199.227.0.18]) by sys1.tappr.org (8.7.2/8.7.2) with SMTP id JAA27883 for <aprssig@tappr.org>; Sat, 9 Dec 1995 09:26:22 -0600 (CST)
From: n2czf@gate.net
Received: from tequesta.gate.net (root@tequesta.gate.net [199.227.0.12]) by mail1.gate.net (8.6.12/8.6.9) with ESMTP id KAA50594 for <aprssig@tappr.org>; Sat, 9 Dec 1995 10:27:27 -0500
Received: from 199.227.125.181 (wpbfl2-53.gate.net [199.227.125.181]) by tequesta.gate.net (8.6.9/8.6.9) with SMTP id KAA45132 for <aprssig@tappr.org>; Sat, 9 Dec 1995 10:26:50 -0500
Date: Sat, 9 Dec 1995 10:26:50 -0500
Message-Id: <199512091526.KAA45132@tequesta.gate.net>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Subject: Re: [APRSSIG:5031] APRS covered
To: aprssig@tappr.org
In-Reply-To: <9512091416.AA28230@mailhost.gdc.com>
X-Mailer: SPRY Mail Version: 04.00.06.17

GREAT! The more publicity the better!

I have seen the recognition level over the past 2-3 years change from "That is just some more shareware program" to "That is a large group of users that track people via packet"!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

From ke4eer@ro.com Sat Dec 09 09:50:14 1995
Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tappr.org (8.7.2/8.7.2) with SMTP id JAA28675 for <aprssig@tappr.org>; Sat, 9 Dec 1995 09:50:12 -0600 (CST)
Received: from ts1p11.ro.com (ts1p11.ro.com [205.216.92.31]) by sh1.ro.com (8.6.9/8.6.9) with SMTP id KAA28762 for <aprssig@tappr.org>; Sat, 9 Dec 1995 10:56:57 -0600
Message-Id: <199512091656.KAA28762@sh1.ro.com>
X-Mailer: InternetWorks Mail and News 1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sat, 09 Dec 1995 09:50:03
From: ke4eer@ro.com (William Nolle)

To: aprssig@tapr.org
Subject: Mapfix17

I made a map showing only Alabama County's for heavy weather usage. The problem i ran into i found rather strange. All county's 64 are labeled in upper case letters, i now wanted to add the county seat city in Lowercase letters. Everything worked great till the next time i loaded the map in Mapfix17 when i noticed that ALL the city names in lower case had all moved to the exact same coordinates as the uppercase county names. In other words they now are all on top of each other. At first i thought this was due to the 99 label limit but it was raised to 199, so that's not the problem. (At least i think so). Any ideas on this Bob....

Bill KE4EER

From n2czf@gate.net Sat Dec 09 09:55:57 1995
Received: from mail1.gate.net (mail1.gate.net [199.227.0.18]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id JAA28750 for <aprssig@tapr.org>; Sat, 9 Dec 1995 09:55:55 -0600 (CST)
From: n2czf@gate.net
Received: from tequesta.gate.net (root@tequesta.gate.net [199.227.0.12]) by mail1.gate.net (8.6.12/8.6.9) with ESMTP id KAA36024 for <aprssig@tapr.org>; Sat, 9 Dec 1995 10:56:56 -0500
Received: from 199.227.125.174 (wpbfl2-46.gate.net [199.227.125.174]) by tequesta.gate.net (8.6.9/8.6.9) with SMTP id KAA60892 for <aprssig@tapr.org>; Sat, 9 Dec 1995 10:56:13 -0500
Date: Sat, 9 Dec 1995 10:56:13 -0500
Message-Id: <199512091556.KAA60892@tequesta.gate.net>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Subject: File attachments on General Sig Postings
To: aprssig@tapr.org
X-Mailer: SPRY Mail Version: 04.00.06.17

Just wanted to throw this on the sig and see who else is having this problem. A few sig members seem to be having a temporary file attached to all of their postings so some strange reason or another. Whenever I try to read the message I get a fatal error and crash my system, now I try to delete any message that has a file attachment without reading it and it still crashes!

If anyone is aware of their system attaching files to messages please try to correct it, I myself cannot just delete the messsage or read it no matter what I do it crashes the system. If you see someone with this problem please advise them, they themselves may not see the attachment and may not be aware of the problem it creates.

Could this be some sort of "virus" seems harmless enough but annoying? Some virus freak could think of it as funny and what a "wonderful" way to annoy someone. Let one person in internet catch it and let everyone that reads their mail need to deal with it!

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

From horzepa@gdc.com Sat Dec 09 10:52:32 1995
Received: from gate3.gdc.com (gate3.gdc.com [199.98.150.5]) by sys1.tapir.org
(8.7.2/8.7.2) with SMTP id KAA00680 for <aprssig@tapir.org>; Sat, 9 Dec 1995
10:52:29 -0600 (CST)
Received: from mailhost.gdc.com (esun19.gdc.com) by gate3.gdc.com with SMTP id
AA04107
(5.67b/IDA-1.5 for <aprssig@tapir.org>); Sat, 9 Dec 1995 11:52:23 -0500
Received: from esun405.gdc.com by mailhost.gdc.com (4.1/GDC-eInternal/D-) via SMTP
id AA07715; Sat, 9 Dec 95 11:52:22 EST
From: horzepa@gdc.com (Stan Horzepa)
Message-Id: <9512091652.AA07715@mailhost.gdc.com>
Subject: Geminids Test Announcement
To: aprssig@tapir.org
Date: Sat, 9 Dec 1995 11:52:20 -0500 (EST)
X-Mailer: ELM [version 2.4 PL20]
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

Geminids Packet Meteor Scatter Test

Date: December 14, 1995
Time: 0000-2400 UTC
Freq: 50.62 MHz, 145.79 MHz (if available in your area)
Mode: 1200 baud AX.25 packet

Sending Packets

According to the plan, each quadrant of the continent will take turns
transmitting for 15-second periods of each minute as follows:

Northeast stations transmit for the first 15-second period of the minute
(seconds 0 to 14), Southeast stations transmit for the second 15-second
period of each minute (seconds 15 to 29), Southwest stations transmit
for the third 15-second period of the minute (seconds 30 to 44), and
Northwest stations transmit for the fourth 15-second period of each
minute (seconds 45 to 60).

There are two ways to transmit your meteor scatter packets. Use the
meteor scatter mode of APRS. This mode allows your computer to
automatically send packets and plot received packets on a map.

The second way is to insert your grid square in the T0: address field of
your TNC by using the UNPROTO command and then use the Converse Mode to
send packets.

If you live in any area that straddles a quadrant, you must plan

carefully and coordinate your transmissions with other local participants. Make plans not only to minimize interference to other locals, but to be sure that you are transmitting at a time when your intended target is scheduled to listen.

By the way, only stations running at least 100 watts into a beam antenna should transmit. Anything less is unlikely to propagate packets via meteor scatter and just causes unnecessary QRM.

Receiving Packets

Even if your station is not a powerhouse, you can still participate by monitoring the test. If you are running APRS, each received grid square packet is plotted on a map and entered into the APRS Heard log. If you are not running APRS, I recommend setting the clock in your TNC and enabling the time-stamping function so that each monitored packet displays the date and time of its reception. This makes logging received packets easy and permits unattended monitoring and logging when you are unable to sit in front of your computer.

During the reception period, watch for stations sending packets containing grid squares. If you have a grid square map handy, make a note of the grid squares that are 500 to 1200 miles from your QTH and when you receive a grid square from one of those, you know you have hit pay dirt. If you are running 100 watts or more into a beam antenna, you can try and make a connection with that station, too!

Reporting Packets

After the test, send your reports contain the following information:

Your call sign
Your state/province
Your grid square
Your effective radiated power (if you transmitted during the test)
Call sign of received/connected station
Grid square of received/connected station
Time of reception/connection in UTC and number of received packets
Mileage between your and received/connected station

Send your reports by mail to:

Stan Horzepa, WA1LOU
One Glen Ave.
Wolcott, CT 06716-1442

or electronically to:

horzepa@gdc.com via Internet email
70645,247 via Compuserve
Stand1up via America Online

--

Stan Horzepa ~ phone: 203-758-1811 x7369
Technical Writing Supervisor ~ email: horzepa@gdc.com
General DataComm (MODEMS 'R' US) ~ radio: WA1LOU
P. O. Box 1299 ~ packet radio mail: WA1LOU@N4GAA
Middlebury, CT 06762-1299 ~ TCP/IP packet radio: 44.88.4.8

~~~~~ What! - Me Worry? ~~~~~

From jleonard@tbcnet.com Sat Dec 09 12:16:24 1995  
Received: from tbc2.tbcnet.com (root@tbc2.tbcnet.com [205.199.1.5]) by  
sys1.tapir.org (8.7.2/8.7.2) with SMTP id MAA03206 for <aprssig@tapir.org>; Sat, 9  
Dec 1995 12:16:20 -0600 (CST)  
Received: from jbleonard.tbcnet.com (jbleonard.tbcnet.com [205.199.1.129]) by  
tbc2.tbcnet.com (8.6.12/8.6.12) with SMTP id MAA25385 for <aprssig@tapir.org>; Sat,  
9 Dec 1995 12:16:27 -0600  
Date: Sat, 9 Dec 1995 12:16:27 -0600  
Message-Id: <199512091816.MAA25385@tbc2.tbcnet.com>  
X-Sender: jleonard@tbcnet.com  
X-Mailer: Windows Eudora Version 1.4.4  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: aprssig@tapir.org  
From: jleonard@tbcnet.com (John B. Leonard)  
Subject: Re: [APRSSIG:5037] File attachments on General Sig Postings

THANK YOU!!! I thot I was the only one with this problem. Here's what I  
just got:

-----  
I set CMS PBBS to force anyone who connects to MYCALL to end up in the PBBS  
where I have info about my setup and APRS in general. It also circumvents  
the problem you mentioned.

-----  
From: Robert Winingham[SMTP:kc5ejk@onramp.net]  
Sent: Friday, December 08, 1995 2:33 PM  
To: aprssig@tapir.org  
Subject: [APRSSIG:5028] GPS KPC-3 TRACKER connect

What are the settings to prevent radio connections to a KPC-3 GPS tracker. ??

The SYSOP remote is protected by a password  
but what about the mycall and mycall-1 BBS connections.

If a connection is done to the mycall then raw GPS NMEA data is leaked  
over the air waves once a sec.

Attachment Converted: C:\EUDORA\APRSSIG5

-----  
>Just wanted to throw this on the sig and see who else is having this problem.  
>A few sig members seem to be having a temporary file attached to all of their  
>postings so some strange reason or another. Whenever I try to read the message

>Could this be some sort of "virus" seems harmless enough but annoying? Some  
>virus freak could think of it as funny and what a "wonderful" way to annoy  
>someone. Let one person in internet catch it and let everyone that reads their  
>mail need to deal with it!

Oh, Lord, I hope not! I was able to view the attachment and it definitely  
wasn't ASCII. Luckily, it came off of my computer. But you make a good point.

>  
>73's De Rich N2CZF  
>n2czf@gate.net  
>Jupiter Farms Florida  
>  
>  
>  
>  
J Barry Leonard HamRadio N9VJQ/EN510W  
Subependymoma 1990  
DeKalb IL  
E-MAIL: jleonard@tbcnet.com

From jleonard@tbcnet.com Sat Dec 09 12:16:25 1995  
Received: from tbc2.tbcnet.com (root@tbc2.tbcnet.com [205.199.1.5]) by  
sys1.tapr.org (8.7.2/8.7.2) with SMTP id MAA03207 for <aprssig@tapr.org>; Sat, 9  
Dec 1995 12:16:21 -0600 (CST)  
Received: from jbleonard.tbcnet.com (jbleonard.tbcnet.com [205.199.1.129]) by  
tbc2.tbcnet.com (8.6.12/8.6.12) with SMTP id MAA25387 for <aprssig@tapr.org>; Sat,  
9 Dec 1995 12:16:30 -0600  
Date: Sat, 9 Dec 1995 12:16:30 -0600  
Message-Id: <199512091816.MAA25387@tbc2.tbcnet.com>  
X-Sender: jleonard@tbcnet.com  
X-Mailer: Windows Eudora Version 1.4.4  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: aprssig@tapr.org  
From: jleonard@tbcnet.com (John B. Leonard)  
Subject: Re: [APRSSIG:5029] Re: 145.790

>Pat Bunsold sez:  
>>  
>> Might as well throw my comments in on this ongoing debate!

Maybe somebody here can answer a question...  
I remembered hearing from somebody who knew more about APRS than I did that  
145.790 was chosen for APRS because it was an EXPERIMENTAL frequency. The  
implication he gave me was that once it catches on, it'll move.

Anyone want to comment on this?

(Hey, guys, don't shoot me! I'm just repeating what I heard! My hide ain't  
as tuff as Bill EER's :-))

Thanks and 73's  
J Barry Leonard HamRadio N9VJQ/EN510W  
Subependymoma 1990  
DeKalb IL  
E-MAIL: jleonard@tbcnet.com

From philkeys@olympus.net Sat Dec 09 12:20:09 1995  
Received: from olympus.net (root@olympus.net [198.133.237.1]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id MAA03606 for <aprssig@tapir.org>; Sat, 9 Dec 1995 12:20:07 -0600 (CST)  
Received: from [198.133.237.33] (ptpm003.olympus.net [198.133.237.33]) by olympus.net (8.6.12/8.6.12) with SMTP id KAA15187 for <aprssig@tapir.org>; Sat, 9 Dec 1995 10:21:58 -0800  
X-Sender: philkeys@pt.olympus.net  
Message-Id: <v01510101acef810100d7@[198.133.237.53]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Sat, 9 Dec 1995 10:20:19 -0800  
To: aprssig@tapir.org  
From: philkeys@olympus.net (Phil Keys)  
Subject: KC7KEZ Christmas Party on HF APRS, Dec. 10

The Jefferson County Amateur Radio Club, KC7KEZ, will be on the air from Port Townsend, WA demonstrating HF APRS on 10151.5MHz for its annual Christmas party, Sunday Dec. 10.

This will be the first introduction to APRS for most club members except for W7LD and KI7QX who have tried HF APRS on and off for the past several weeks. I (KJ7ET) was on HF APRS for several weeks three weeks ago until I had to return my borrowed HF TNC. At the time I received several reports that there had been not much HF APRS activity from the Pacific Northwest.

So look for us and let us know if you see (hear?) us.

73  
Phil Keys  
KJ7ET

philkeys@pt.olympus.net (Phil Keys) KJ7ET Jeff Co Search & Rescue  
Software Consultant - specializing in software safety & SQA  
Port Hadlock, WA 98339 (360) 379-8650 122 44.0W 48 02.0N

From on4avi@port.ve3mch.ampr.org Sat Dec 09 13:27:44 1995  
Received: from port.ve3mch.ampr.org (port.ve3mch.ampr.org [44.135.85.30]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id NAA05424 for <aprssig@tapir.org>; Sat, 9 Dec 1995 13:27:42 -0600 (CST)  
From: on4avi@port.ve3mch.ampr.org  
Date: Sat, 09 Dec 95 13:00:55 est  
Message-Id: <9500@port.ve3mch.ampr.org>

To: aprssig@tapr.org  
Subject: Best Buy?

Hi,name here Herman. I am a newcomer on this stuff..  
in Canada and/or the States,their prices , possibilities and where availabel?  
Here in Belgium the price is verry HIGH,I hope to take It with me from over  
the ocean 73 de Herman ON4AVI@VE3MCH.amp.org

From largriff@onramp.net Sat Dec 09 13:30:13 1995  
Received: from mailhost.onramp.net (mailhost.onramp.net [199.1.11.3]) by  
sys1.tapr.org (8.7.2/8.7.2) with SMTP id NAA05514 for <aprssig@tapr.org>; Sat, 9  
Dec 1995 13:30:11 -0600 (CST)  
Received: from [199.1.172.140] (lub12.onramp.net [199.1.172.140]) by  
mailhost.onramp.net (8.6.12/8.6.5) with SMTP id NAA22380 for <aprssig@tapr.org>;  
Sat, 9 Dec 1995 13:30:08 -0600  
Message-Id: <199512091930.NAA22380@mailhost.onramp.net>  
To: "aprssig@tapr.org" <aprssig@tapr.org>  
Subject: Test of new mailer  
Date: Sat, 09 Dec 95 13:29:15 -0500  
From: Larry Griffin <largriff@onramp.net>  
X-Mailer: E-Mail Connection v2.5.03

-- [ From: Larry Griffin \* EMC.Ver #2.5.02 ] --

In effort to avoid unwanted attachments on my messages I'm trying out some  
new mailer programs.

I would like to hear personally (not echoed on APRSSIG) from anyone else who  
is using a mailer with Windows 95.

Larry Griffin <largriff@onramp.net>

--

Larry Griffin <largriff@onramp.net>

From ke4eer@RO.COM Sat Dec 09 14:11:53 1995  
Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tapr.org  
(8.7.2/8.7.2) with SMTP id OAA07164 for <aprssig@tapr.org>; Sat, 9 Dec 1995  
14:11:51 -0600 (CST)  
Received: from ts2p8.ro.com (ts2p8.ro.com [205.216.92.58]) by sh1.ro.com  
(8.6.9/8.6.9) with SMTP id PAA07542 for <aprssig@tapr.org>; Sat, 9 Dec 1995  
15:15:48 -0600  
Message-Id: <199512092115.PAA07542@sh1.ro.com>  
X-Mailer: InternetWorks Mail and News 1.1  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Sat, 09 Dec 1995 14:08:42  
From: ke4eer@RO.COM (William Nolle)  
To: aprssig@tapr.org  
Subject: Met:Scatter

I read the Test Announcement posted by Stan and it states that the South  
East transmits for the second 15 seconds of the minute. I just did a test by  
setting up a special APRS for just that and after entering all the info and

picking SE for the TX sector it transmits the first 15 seconds of the minute.  
Maybe i'm getting older then i think i am and loosing it somewhere Hi.

Bill KE4EER

From ke4eer@RO.COM Sat Dec 09 14:12:03 1995  
Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tapir.org  
(8.7.2/8.7.2) with SMTP id OAA07182 for <aprssig@tapir.org>; Sat, 9 Dec 1995  
14:12:00 -0600 (CST)  
Received: from ts2p8.ro.com (ts2p8.ro.com [205.216.92.58]) by sh1.ro.com  
(8.6.9/8.6.9) with SMTP id PAA07449 for <aprssig@tapir.org>; Sat, 9 Dec 1995  
15:10:32 -0600  
Message-Id: <199512092110.PAA07449@sh1.ro.com>  
X-Mailer: InternetWorks Mail and News 1.1  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Sat, 09 Dec 1995 14:03:28  
From: ke4eer@RO.COM (William Nolle)  
To: aprssig@tapir.org  
Subject: Re: [APRSSIG:5041] KC7KEZ Christmas Party on HF APRS, Dec. 10

That's great if you would just keep it on HF and not beacon all over VHF.  
Boy is this going to get me some flames again Hi. That's ok i can take it guys.

>The Jefferson County Amateur Radio Club, KC7KEZ, will be on the air from  
>Port Townsend, WA demonstrating HF APRS on 10151.5MHz for its annual  
>Christmas party, Sunday Dec. 10.  
>So look for us and let us know if you see (hear?) us.  
>  
>73  
>Phil Keys  
>KJ7ET  
>  
>philkeys@pt.olympus.net (Phil Keys) KJ7ET Jeff Co Search & Rescue  
>Software Consultant - specializing in software safety & SQA  
>Port Hadlock, WA 98339 (360) 379-8650 122 44.0W 48 02.0N  
>  
>

From ke4eer@RO.COM Sat Dec 09 14:12:07 1995  
Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tapir.org  
(8.7.2/8.7.2) with SMTP id OAA07191 for <aprssig@tapir.org>; Sat, 9 Dec 1995  
14:12:03 -0600 (CST)  
Received: from ts2p8.ro.com (ts2p8.ro.com [205.216.92.58]) by sh1.ro.com  
(8.6.9/8.6.9) with SMTP id PAA07341 for <aprssig@tapir.org>; Sat, 9 Dec 1995  
15:06:36 -0600  
Message-Id: <199512092106.PAA07341@sh1.ro.com>  
X-Mailer: InternetWorks Mail and News 1.1  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Sat, 09 Dec 1995 13:59:34

From: ke4eer@RO.COM (William Nolle)  
To: aprssig@tapr.org  
Subject: Re: [APRSSIG:5040] Re: 145.790

Hey man after hanging out here on the Sig for a while every hide will get tuff  
Hi Hi. Pat don't know where you heard that from but i am firmly planted here  
and it would take a bulldozer to even budge my station after what i went trough  
to get this frequency coordinated here in North Alabama. And Pat that person  
doesn't kow more about APRS then you do (In fact a lot less hi).

Bill KE4EER

-----  
>>Pat Bunsold sez:

>I remembered hearing from somebody who knew more about APRS than I did that  
>145.790 was chosen for APRS because it was an EXPERIMENTAL frequency. The  
>implication he gave me was that once it catches on, it'll move.  
>  
>Anyone want to comment on this?  
>  
>(Hey, guys, don't shoot me! I'm just repeating what I heard! My hide ain't  
>as tuff as Bill EER's :- )  
>  
>Thanks and 73's  
>J Barry Leonard HamRadio N9VJQ/EN510W  
>Subependymoma 1990  
>DeKalb IL  
>E-MAIL: jleonard@tbcnet.com  
>  
>

From horzepa@gdc.com Sat Dec 09 21:55:45 1995  
Received: from gate3.gdc.com (gate3.gdc.com [199.98.150.5]) by sys1.tapr.org  
(8.7.2/8.7.2) with SMTP id VAA22553 for <aprssig@tapr.org>; Sat, 9 Dec 1995  
21:55:43 -0600 (CST)  
Received: from mailhost.gdc.com (esun19.gdc.com) by gate3.gdc.com with SMTP id  
AA04888  
(5.67b/IDA-1.5 for <aprssig@tapr.org>); Sat, 9 Dec 1995 22:55:36 -0500  
Received: from esun405.gdc.com by mailhost.gdc.com (4.1/GDC-eInternal/D-) via SMTP  
id AA17380; Sat, 9 Dec 95 22:55:37 EST  
From: horzepa@gdc.com (Stan Horzepa)  
Message-Id: <9512100355.AA17380@mailhost.gdc.com>  
Subject: Re: [APRSSIG:5044] Met:Scatter  
To: aprssig@tapr.org  
Date: Sat, 9 Dec 1995 22:55:35 -0500 (EST)  
In-Reply-To: <199512092115.PAA07542@sh1.ro.com> from "William Nolle" at Dec 9, 95  
02:24:39 pm  
X-Mailer: ELM [version 2.4 PL20]  
Mime-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit

>  
> I read the Test Announcement posted by Stan and it states that the South  
> East transmits for the second 15 seconds of the minute. I just did a test by  
> setting up a special APRS for just that and after entering all the info and  
> picking SE for the TX sector it transmits the first 15 seconds of the minute.  
> Maybe i'm getting older then i think i am and loosing it somewhere Hi.

>  
Hello Bill,

I believe that 96 degrees west is the dividing line between east and west for  
aprs meteor scatter purposes, so depending on which side of that dividing line  
you find yourself in the Lone Star State, you can be in the SE or SW.

73,

Stan, WA1LOU

--  
Stan Horzepa ~ phone: 203-758-1811 x7369  
Technical Writing Supervisor ~ email: horzepa@gdc.com  
General DataComm (MODEMS 'R' US) ~ radio: WA1LOU  
P. O. Box 1299 ~ packet radio mail: WA1LOU@N4GAA  
Middlebury, CT 06762-1299 ~ TCP/IP packet radio: 44.88.4.8

~~~~~ What! - Me Worry? ~~~~~

From ke4eer@ro.com Sun Dec 10 08:21:14 1995
Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tapir.org
(8.7.2/8.7.2) with SMTP id IAA13292 for <aprssig@tapir.org>; Sun, 10 Dec 1995
08:21:12 -0600 (CST)
Received: from ts1p14.ro.com (ts1p14.ro.com [205.216.92.34]) by sh1.ro.com
(8.6.9/8.6.9) with SMTP id JAA28477 for <aprssig@tapir.org>; Sun, 10 Dec 1995
09:28:14 -0600
Message-Id: <199512101528.JAA28477@sh1.ro.com>
X-Mailer: InternetWorks Mail and News 1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sun, 10 Dec 1995 08:21:01
From: ke4eer@ro.com (William Nolle)
To: aprssig@tapir.org
Subject: RE: APRSSIG:5034 Final 100K steps

I read Bob's Final 100K steps and i don't mind telling you the instructions
sounded complicated to me anyway. I read them over and over and attempted
to duplicate what Bob did, and i'm sure that most people can understand what
it's all about, but i couldn't (Getting old) and things are getting harder and
harder to grasp (Boy am i leaving myself wide open for the flame throwers) hi.
But what i did do is played around with those maps i did for Hattiesburg, MS
and found that if i increased the range setting in the Maplist.ms to 2.1 rather
then the 1.1 that when i move the cursor from one map to the next that i am
always on a map and never hit a spot that doesn't have one. I moved the
cursor like a mobile user would and at the point where one map ends you will
find yourself already on the next map due to the horizontal overlap of the

maps. Now this doesn't work as good when moving the cursor from North to South, this of course is due to there not being any overlap but i found it still exceptable because you still move from one map into the next without ever being in a blank space. I have not seen Bob's setup yet but doing it this way will not add any additional work. I'm still going to do some more testing with different combonations tough to try to improve the 1 mile map systems. As for finding the map centers i never have to much of a problem with that since when i make a map system for a City or Town i start with a main map in the 8-10 mile range depending on the town size of course, then when my gridwork is drawn i also draw a box around the perameter of the gridwork using the color 7 (L/Gray) so when i zoom in on the town my gray box comes up first showing me where all the 1 mile maps are located. If you have any of the Huntsville,AL maps you can see how that works. I hope this will all help some of you out there that are just getting into making street level maps for your area. And i'm sure there are many many ways to do this other then the way i do it. I have made something like 450 maps now and am still leaning new tricks and shortcuts. So if you find a better way let all of us in on it.

Bill KE4EER
ke4eer@ro.com

From bruninga@nadm.navy.mil Sun Dec 10 08:29:03 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id IAA13340 for <aprssig@tapr.org>; Sun,
10 Dec 1995 08:29:01 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
JAA25290; Sun, 10 Dec 1995 09:29:24 -0500
Date: Sun, 10 Dec 1995 09:29:23 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapr.org
Subject: 145.79 LAST TIME
In-Reply-To: <199512091816.MAA25387@tbc2.tbcnet.com>
Message-ID: <Pine.SUN.3.91.951210091510.25277B-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Someone wrote:>

> I remembered hearing from somebody who knew more about APRS than I did that
> 145.790 was chosen for APRS because it was an EXPERIMENTAL frequency. The
> implication he gave me was that once it catches on, it'll move.

APRS began on .79 because it was designated an experimental frequency for
new modes and applications in the area. Seemed like the perfect place to
experiment.

But the problem with potential interference with the future manned space
frequency opf 145.80 has BEEN SOLVED. The next version of APRS and all
future versions will have embedded the ability for a properly designated
net control operator to command MINIMIZE. This causes all UN-ATTENDED
APRS stations to hold off automatic packets for 9 minutes. ATTENDED
atations are also minimizeed, but the operator may override if he is in

the middle of emergency or priority traffic. Once the SPACESTATIONS or SAREX begin using APRtrak for transmitting their GPS position in a 0.2 second burst (even on voice passes) then this MINIMIZE function can be automatic. This will result in MINIMIZE being commanded ONLY when the MANNED SPACE frequency is actually in use by the astronauts.

From largriff@onramp.net Sun Dec 10 09:06:21 1995
Received: from mailhost.onramp.net (mailhost.onramp.net [199.1.11.3]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id JAA14577 for <aprssig@tapr.org>; Sun, 10 Dec 1995 09:06:19 -0600 (CST)
Received: from lub08.onramp.net (lub08.onramp.net [199.1.172.136]) by mailhost.onramp.net (8.6.12/8.6.5) with SMTP id JAA16525 for <aprssig@tapr.org>; Sun, 10 Dec 1995 09:06:16 -0600
Received: by lub08.onramp.net with Microsoft Mail id <01BAC6DE.9F42BB60@lub08.onramp.net>; Sun, 10 Dec 1995 09:05:16 -0600
Message-ID: <01BAC6DE.9F42BB60@lub08.onramp.net>
From: Larry Griffin <largriff@onramp.net>
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Subject: Mailer Test
Date: Sun, 10 Dec 1995 09:05:05 -0600
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

I'm still trying to get rid of the unwanted attachments on my email.
Please reply to me whether or not this message has an attachment.

Sorry about the troubles everybody, but I'm not the only Win 95 user with this problem and if I can solve it, it will help us all.

Larry Griffin <largriff@onramp.net>

From ke4eer@ro.com Sun Dec 10 09:11:43 1995
Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id JAA14614 for <aprssig@tapr.org>; Sun, 10 Dec 1995 09:11:41 -0600 (CST)
Received: from (ts2p5.ro.com [205.216.92.55]) by sh1.ro.com (8.6.9/8.6.9) with SMTP id KAA29147 for <aprssig@tapr.org>; Sun, 10 Dec 1995 10:11:40 -0600
Message-Id: <199512101611.KAA29147@sh1.ro.com>
X-Mailer: InternetWorks Mail and News 1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sun, 10 Dec 1995 09:04:28
From: ke4eer@ro.com (William Nolle)
To: aprssig@tapr.org
Subject: Interesting file

I have just uploaded a executable file named APRS7400.EXE it's a picture of all the activity in the Southeastern area, I found a program name Grabber that allows you to take a screen dump and it turns it into an executable file, you can also make PCX or Gif files out of it. Take a look at our area!. It's a fairly small file.. Boy is it dead on the Sig on sundays....

Bill KE4EER
ke4eer@ro.com

From daveh@moose.erie.net Sun Dec 10 09:44:35 1995
Received: from moose.erie.net (root@moose.erie.net [199.234.142.2]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id JAA15727 for <aprssig@tapr.org>; Sun, 10
Dec 1995 09:44:32 -0600 (CST)
Received: from slip5.erie.net (slip5.erie.net [199.234.142.205]) by moose.erie.net
(8.6.11/8.6.9) with SMTP id KAA21339 for <aprssig@tapr.org>; Sun, 10 Dec 1995
10:42:44 -0500
Message-Id: <199512101542.KAA21339@moose.erie.net>
X-Sender: daveh@moose.erie.net
X-Mailer: Windows Eudora Light Version 1.5.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sun, 10 Dec 1995 10:44:39 -0500
To: aprssig@tapr.org
From: "David G. Henderson" <daveh@moose.erie.net>
Subject: Hooking up U-2000

Bob or someone who has hooked up the new U-2000 weather computer:

Tom, N3HPR, just got his new U-2000. He also has APRS version 74c
installed; he is registered for weather; and has done an Alt-S to validate.
But the weather is not being received by APRS--nonsensical info and improper
numbers and letters are displayed at top of screen

The WX.TXT file is a little vague.

Which mode on the U-2000 is to be used to supply data to APRS?

Is a different cable required between U-2000 and computer--he is trying to
use the cable that came with the U-II?

What baud rate should be used--he is using 4800?

Help, please. TNX

73, Dave, N3EOY

```
*****  
* David G. Henderson                      daveh@moose.erie.net *  
* Amateur Radio: N3EOY                    n3eoy@wa3zca.#nwpa.pa.usa.noam *  
*      Emergency Coordinator, Erie County PA SKYWARN                *  
*      Township Supervisor, Franklin Township, Erie Co., PA        *  
* Work Phone: 814-734-3521 (7 am-3 pm); Fax: same, voice first *  
*      Home Phone: 814-734-4623; Fax: same, voice first           *  
*      Digital Pager: 814-452-9263                                   *
```

From n2czf@gate.net Sun Dec 10 11:17:18 1995
Received: from mail1.gate.net (mail1.gate.net [199.227.0.18]) by sys1.tapr.org
(8.7.2/8.7.2) with SMTP id LAA18561 for <aprssig@tapr.org>; Sun, 10 Dec 1995
11:17:14 -0600 (CST)

From: n2czf@gate.net
Received: from tequesta.gate.net (root@tequesta.gate.net [199.227.0.12]) by mail1.gate.net (8.6.12/8.6.9) with ESMTP id MAA66092 for <aprssig@tapr.org>; Sun, 10 Dec 1995 12:02:46 -0500
Received: from 199.227.125.148 (wpbfl2-20.gate.net [199.227.125.148]) by tequesta.gate.net (8.6.9/8.6.9) with SMTP id MAA30838 for <aprssig@tapr.org>; Sun, 10 Dec 1995 12:02:09 -0500
Date: Sun, 10 Dec 1995 12:02:09 -0500
Message-Id: <199512101702.MAA30838@tequesta.gate.net>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Subject: ARN BBS Down ???
To: aprssig@tapr.org
X-Mailer: SPRY Mail Version: 04.00.06.17

Can anyone tell me if the ARN BBS is down or not ? I have been trying to call it all morning and I get no answer. Been months since I last called since I got internet access but I need betab.zip and Bob only uploaded it to ARN. TAPR was having problems at the time so ARN was the only medium to transfer it by.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

From rtucker@crasher2.ttgciitn.com Sun Dec 10 11:41:03 1995
Received: from insosf1.netins.net (ttgciitn@insosf1.netins.net [167.142.225.5]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id LAA19352 for <aprssig@tapr.org>; Sun, 10 Dec 1995 11:41:00 -0600 (CST)
Received: (from ttgciitn@localhost) by insosf1.netins.net id LAA06871 for aprssig@tapr.org; Sun, 10 Dec 1995 11:40:57 -0600
Received: (from rtucker@localhost) by crasher2.ttgciitn.com (8.6.12/8.6.12) id LAA03874 for aprssig@tapr.org; Sun, 10 Dec 1995 11:38:50 -0600
From: Ryan Tucker <rtucker@crasher2.ttgciitn.com>
Message-Id: <199512101738.LAA03874@crasher2.ttgciitn.com>
Subject: Re: [APRSSIG:5052] Hooking up U-2000
To: aprssig@tapr.org
Date: Sun, 10 Dec 1995 11:38:48 -0600 (CST)
In-Reply-To: <199512101542.KAA21339@moose.erie.net> from "David G. Henderson" at Dec 10, 95 09:56:17 am
X-Mailer: ELM [version 2.4 PL24]
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

Thus spake David G. Henderson, splattered hither:
> What baud rate should be used--he is using 4800?

2400 seems to be what the U-II uses and APRS expects. Try that :-)

--

Ryan Tucker
rtucker@ttgciitn.com
http://www.ttgciitn.com

ttgciitn.com owner
ann-arbor.mi.us.undernet.org irc admin
netins.net user development group

From farver@uwplatt.edu Sun Dec 10 12:38:35 1995
Received: from palm (palm.ucs.uwplatt.edu [137.104.128.22]) by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id MAA21431 for <aprssig@tapr.org>; Sun, 10 Dec 1995 12:38:33 -0600 (CST)
Received: from alvin (137.104.135.43) by uwplatt.edu (PMDf V4.3-13 #7577) id <01HYN59Z53C0IF4MMG@uwplatt.edu>; Sun, 10 Dec 1995 12:40:41 -0600 (CST)
Date: Sun, 10 Dec 1995 12:41:59 -0600
From: "Mark Farver (KB9JMZ)" <farver@uwplatt.edu>
Subject: Re: [APRSSIG:5039] Re: File attachments on General Sig Postings
X-Sender: farver@pop.uwplatt.edu
To: aprssig@tapr.org
Message-id: <01HYN59Z8UDEIF4MMG@uwplatt.edu>
MIME-version: 1.0
X-Mailer: Windows Eudora Pro Version 2.1.2
Content-type: text/plain; charset="us-ascii"
Content-transfer-encoding: 7BIT

At 12:33 PM 12/9/95 -0600, you wrote:

>>Just wanted to throw this on the sig and see who else is having this problem.
>>A few sig members seem to be having a temporary file attached to all of their
>>postings so some strange reason or another. Whenever I try to read the message
>
>>Could this be some sort of "virus" seems harmless enough but annoying? Some
>>virus freak could think of it as funny and what a "wonderful" way to annoy
>>someone. Let one person in internet catch it and let everyone that reads
their
>>mail need to deal with it!

I have seen the same attachments on other sigs. Rumor has it that they are caused by MicroSoft's Internet Mailer that is included with Win 95. Supposedly it defaults to attaching a write doc to the file. If you using Win95 please check your settings.

Mark
KB9JMZ

From pes@gv.net Sun Dec 10 12:39:24 1995
Received: from main.gv.net (root@main.gv.net [205.162.164.2]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id MAA21451 for <aprssig@tapr.org>; Sun, 10 Dec 1995 12:39:22 -0600 (CST)
Received: from main.gv.net ([205.162.164.64]) by main.gv.net (8.6.9/8.6.9) with SMTP id LAA13514 for <aprssig@tapr.org>; Sun, 10 Dec 1995 11:25:31 -0800
Date: Sun, 10 Dec 1995 11:25:31 -0800
Message-Id: <199512101925.LAA13514@main.gv.net>
X-Sender: pes@main.gv.net
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org

From: pes@gv.net (Peter Short)
Subject: Mac SE

I have a MAC SE I would like to use for APRS, the only thing here is there is no hard drive. My question is can APRS be run from a floppy drive with minimal files like a PC can? And what files are they? There are 2 floppy drives on the machine. I'm not familiar with MACS and need some advice here.

TNX, 73's

Peter.KD6DKD

From dbarrow@omnifest.uwm.edu Sun Dec 10 12:43:04 1995
Received: from uwm.edu (uwm.edu [129.89.6.2]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id MAA21520 for <aprssig@tapir.org>; Sun, 10 Dec 1995 12:43:01 -0600 (CST)
Received: from omnifest.uwm.edu (omnifest.uwm.edu [129.89.70.58]) by uwm.edu (8.7.1/8.6.9) with SMTP id MAA19690 for <aprssig@tapir.org>; Sun, 10 Dec 1995 12:42:58 -0600 (CST)
Received: by omnifest.uwm.edu; (5.65/1.1.8.2/17Sep94-0940PM)
id AA23206; Sun, 10 Dec 1995 12:42:57 -0600
Date: Sun, 10 Dec 1995 12:42:57 -0600
From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Message-Id: <9512101842.AA23206@omnifest.uwm.edu>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:5011] Re: EUROMIR + SAFEX FREQUENCY C

WHOA!!!!

Tennessee must be different from Wisconsin. Check with YOUR Frequency Coordinator (SERA - I think). You'll find that all those frequencies you think are not being used - ARE.

Merry Christmas!

Dave Barrow, N9UNR
FC-WI WAR-MACC
n9unr#execpc.com (PREFERRED)

From farver@uwplatt.edu Sun Dec 10 12:43:25 1995
Received: from palm (palm.ucs.uwplatt.edu [137.104.128.22]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id MAA21538 for <aprssig@tapir.org>; Sun, 10 Dec 1995 12:43:23 -0600 (CST)
Received: from alvin (137.104.135.43) by uwplatt.edu (PMDf V4.3-13 #7577)
id <01HYN5G2D5WWIF40M8@uwplatt.edu>; Sun, 10 Dec 1995 12:45:35 -0600 (CST)
Date: Sun, 10 Dec 1995 12:46:53 -0600
From: "Mark Farver (KB9JmZ)" <farver@uwplatt.edu>
Subject: Re: [APRSSIG:5041] KC7KEZ Christmas Party on HF APRS, Dec. 10
X-Sender: farver@pop.uwplatt.edu
To: aprssig@tapir.org
Message-id: <01HYN5G2GWYAI40M8@uwplatt.edu>
MIME-version: 1.0
X-Mailer: Windows Eudora Pro Version 2.1.2
Content-type: text/plain; charset="us-ascii"
Content-transfer-encoding: 7BIT

At 12:36 PM 12/9/95 -0600, you wrote:

>The Jefferson County Amateur Radio Club, KC7KEZ, will be on the air from
>Port Townsend, WA demonstrating HF APRS on 10151.5MHz for its annual
>Christmas party, Sunday Dec. 10.

I may be a newbie... but isn't 10151.5 _MHz_ X-band microwave, not HF?

Mark
KB9JMZ

From dbarrow@omnifest.uwm.edu Sun Dec 10 12:52:52 1995
Received: from uwm.edu (uwm.edu [129.89.6.2]) by sys1.tapir.org (8.7.2/8.7.2) with
ESMTP id MAA22099 for <aprssig@tapir.org>; Sun, 10 Dec 1995 12:52:50 -0600 (CST)
Received: from omnifest.uwm.edu (omnifest.uwm.edu [129.89.70.58]) by uwm.edu
(8.7.1/8.6.9) with SMTP id MAA17058 for <aprssig@tapir.org>; Sun, 10 Dec 1995
12:52:48 -0600 (CST)
Received: by omnifest.uwm.edu; (5.65/1.1.8.2/17Sep94-0940PM)
id AA02333; Sun, 10 Dec 1995 12:52:47 -0600
Date: Sun, 10 Dec 1995 12:52:47 -0600
From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Message-Id: <9512101852.AA02333@omnifest.uwm.edu>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:5014] 145.820??

Tom,

Where did you get the idea that 145.79 is coordinated to APRS? I am
the Frequency Coordinitor for the Wisconsin Association of Repeaters - and
WE (WAR) have NOT done that. I have NOT been notified that anyone else
has coordinated anything in this state.

Merry Christmas!

Dave Barrow, N9UNR
FC-WI WAR-MACC
n9unr@execpc.com (PREFERRED)

From dbarrow@omnifest.uwm.edu Sun Dec 10 14:04:03 1995
Received: from uwm.edu (uwm.edu [129.89.6.2]) by sys1.tapir.org (8.7.2/8.7.2) with
ESMTP id OAA24502 for <aprssig@tapir.org>; Sun, 10 Dec 1995 14:04:00 -0600 (CST)
Received: from omnifest.uwm.edu (omnifest.uwm.edu [129.89.70.58]) by uwm.edu
(8.7.1/8.6.9) with SMTP id OAA21605 for <aprssig@tapir.org>; Sun, 10 Dec 1995
14:03:57 -0600 (CST)
Received: by omnifest.uwm.edu; (5.65/1.1.8.2/17Sep94-0940PM)
id AA26423; Sun, 10 Dec 1995 14:03:56 -0600
Date: Sun, 10 Dec 1995 14:03:56 -0600
From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Message-Id: <9512102003.AA26423@omnifest.uwm.edu>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:5049] 145.79 LAST TIME

Then, of course, there are the EGO stations who won't upgrade

(if they know of the "bug").

I get concerned about "It is for your own good" - I then try to protect my wallet with one hand - and the other hand tries to protect the opposite side of my body....

Dave Barrow, N9UNR
dbarrow@omnifest.uwm.edu

From z002594b@bcfreenet.seflin.lib.fl.us Sun Dec 10 14:56:15 1995
Received: from bcfreenet.seflin.lib.fl.us (bcfreenet.seflin.lib.fl.us [198.78.48.20]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id OAA25924 for <aprssig@tapr.org>; Sun, 10 Dec 1995 14:56:08 -0600 (CST)
Received: (from z002594b@localhost) by bcfreenet.seflin.lib.fl.us (8.6.12/8.6.12) id PAA09056; Sun, 10 Dec 1995 15:54:36 -0500
Date: Sun, 10 Dec 1995 15:54:35 -0500 (EST)
From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Subject: Re: [APRSSIG:5037] File attachments on General Sig Postings
To: aprssig@tapr.org
cc: aprssig@tapr.org
In-Reply-To: <199512091556.KAA60892@tequesta.gate.net>
Message-ID: <Pine.3.89.9512101543.A8073-01000000@bcfreenet.seflin.lib.fl.us>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

An alert appeared on CIS a few weeks ago warning users to be careful of attachments to unsolicited email messages. It seems that, in some cases, a virus is passed.

It was advised that if the email is from an unknown party then do not read the attachment.

William Manley
z002594b@bcfreenet.seflin.lib.fl.us
<http://ourworld.compuserve.com/homepages/bmanley>

On Sat, 9 Dec 1995 n2czf@gate.net wrote:

> Just wanted to throw this on the sig and see who else is having this problem.
> A few sig members seem to be having a temporary file attached to all of their
> postings so some strange reason or another. Whenever I try to read the message I
> get a fatal error and crash my system, now I try to delete any message that has
> a file attachment without reading it and it still crashes!
>
> If anyone is aware of their system attaching files to messages please try to
> correct it, I myself cannot just delete the message or read it no matter what I
> do it crashes the system. If you see someone with this problem please advise
> them, they themselves may not see the attachment and may not be aware of the
> problem it creates.
>
> Could this be some sort of "virus" seems harmless enough but annoying? Some
> virus freak could think of it as funny and what a "wonderful" way to annoy
> someone. Let one person in internet catch it and let everyone that reads their
> mail need to deal with it!

>
> 73's De Rich N2CZF
> n2czf@gate.net
> Jupiter Farms Florida
>
>
>
>

From ksproul@hardees.Rutgers.EDU Sun Dec 10 15:01:07 1995
Received: from old-hercules.rutgers.edu (old-hercules.rutgers.edu [128.6.18.82])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id PAA26081 for <aprssig@tapir.org>; Sun,
10 Dec 1995 15:01:04 -0600 (CST)
Received: (from ksproul@localhost) by old-hercules.rutgers.edu
(8.6.12+bestmx+oldruq+newsunq+grosshack/8.6.12) id QAA11461; Sun, 10 Dec 1995
16:01:02 -0500
Sender: Keith Sproul <ksproul@old-hercules.rutgers.edu>
Date: Sun, 10 Dec 95 16:01:01 EST
From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Reply-To: Keith Sproul <ksproul@hardees.Rutgers.EDU>
To: aprssig@tapir.org
Cc: pes@gv.net
In-Reply-To: Your message of Sun, 10 Dec 1995 12:53:14 -0600 (CST)
Subject: RE: Macintosh SE
Message-ID: <CMM-RU.1.4.818629261.ksproul@old-hercules.rutgers.edu>

> I have a MAC SE I would like to use for APRS, the only thing here is there is
> no hard drive. My question is can APRS be run from a floppy drive with
> minimal files like a PC can? And what files are they? There are 2 floppy
> drives on the machine. I'm not familiar
> with MACS and need some advice here.

MacAPRS will run on a Mac SE IF, it has 4meg of memory and is running System
7.0 or later..

You DO have to have a hard drive for all of this..

Keith Sproul

| | |
|---|------------------------------------|
| Keith Sproul | Ham Radio: WU2Z |
| Student Housing Network Coordinator | ksproul@noc.rutgers.edu |
| Rutgers University Computing Services | 908 445-3695 Work 908 445-2968 Fax |
| http://www-ns.rutgers.edu/~ksproul/ | 908 821-4828 Home |

From zonker@iserver.woodside.k12.ca.us Sun Dec 10 15:16:46 1995
Received: from iserver.woodside.k12.ca.us (iserver.woodside.k12.ca.us
[198.31.1.3]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id PAA26581 for
<aprssig@tapir.org>; Sun, 10 Dec 1995 15:16:39 -0600 (CST)
Received: from [192.187.159.44] by iserver.woodside.k12.ca.us (8.6.10/1.37)
id NAA04092; Sun, 10 Dec 1995 13:16:32 -0800

Message-Id: <v02130500acf0fea9d54f@[192.187.159.44]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sun, 10 Dec 1995 13:21:31 -0800
To: aprssig@tapr.org
From: zonker@iserver.woodside.k12.ca.us (David K. Z. Harris)
Subject: Re: [APRSSIG:5056] Mac SE

>I have a MAC SE I would like to use for APRS,the only thing here is there is
>no hard drive.My question is can APRS be run from a floppy drive with
>minamal files like a PC can?And what files are they?There are 2 floppy
>drives on the machine.Im not familiar
>with MACS and need some advice here.

The Mac SE has 4 SIMM slots, and they can only use (30-pin) 256K or 1M memory SIMMs. (The best you can have is a 4M Mac SE.)

Because of the processor, I have not been able to get the 2.x versions of MacAPRS running on my SE. However, 1.5.5 runs fine, with one caveat... you need to occassionally clear all the heard stations and messages, or you'll run out of RAM. (I'm using system 7.0.1, with 1.5M for the system, and 2.5M for MacAPRS. I don't load the zipcode, dx, or airport databases.)

I only have a 20MB hard disk....but I don't think you'll be able to do this with just one or two flopy drives. My advice? Get a hard disk. You can even use an external disk, so you won't have to do any 'surgery' if you have 4M of RAM. :-)

regards,

David N6UOW

From davidc@tbcnet.com Sun Dec 10 15:21:11 1995
Received: from tbc2.tbcnet.com (root@tbc2.tbcnet.com [205.199.1.5]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id PAA26934 for <aprssig@tapr.org>; Sun, 10 Dec 1995 15:21:08 -0600 (CST)
Received: from [205.199.1.163] (davidc.tbcnet.com [205.199.1.163]) by tbc2.tbcnet.com (8.6.12/8.6.12) with SMTP id PAA10264 for <aprssig@tapr.org>; Sun, 10 Dec 1995 15:21:19 -0600
Date: Sun, 10 Dec 1995 15:21:19 -0600
Message-Id: <199512102121.PAA10264@tbc2.tbcnet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: davidc@tbcnet.com (David Chesser)
Subject: Re: [APRSSIG:5056] Mac SE

You need to running system 7 and at least 4 megs of ram 6 is beter.

From largriff@Onramp.NET Sun Dec 10 16:50:25 1995

Received: from mailhost.onramp.net (mailhost.onramp.net [199.1.11.3]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id QAA29708 for <aprssig@tapir.org>; Sun, 10 Dec 1995 16:50:20 -0600 (CST)

Received: from largriff (lub02.onramp.net [199.1.172.130]) by mailhost.onramp.net (8.6.12/8.6.5) with SMTP id QAA14494 for <aprssig@tapir.org>; Sun, 10 Dec 1995 16:50:17 -0600

Message-Id: <199512102250.QAA14494@mailhost.onramp.net>

Comments: Authenticated sender is <largriff@mailhost.onramp.net>

From: "Larry Griffin" <largriff@Onramp.NET>

To: aprssig@tapir.org

Date: Sun, 10 Dec 1995 16:49:20 +0000

Subject: Re: [APRSSIG:5061] Re: File attachments on General Sig Postings

Reply-to: Larry Griffin <largriff@Onramp.NET>

Priority: normal

X-mailer: Pegasus Mail for Windows (v2.23)

WOAH! I don't *think* you're accusing me of trying to pass viruses, William, at least I'll take it that way. But what started this thread was a "feature" of the Windows 95 Email Exchange program that was causing the unwanted attachments to be added to replies only. Since I wasn't able to figure out how to turn that feature off (and apparently no one else has either) I've quit using Microsoft Exchange and am now using Pegasus Mail.

So now we can get back on topic I hope! (Anxiously awaiting WinAPRS)

On 10 Dec 95 at 15:06, William Manley wrote:

> An alert appeared on CIS a few weeks ago warning users to be careful
> of attachments to unsolicited email messages. It seems that, in
> some cases, a virus is passed.

>

> It was advised that if the email is from an unknown party then do
> not read the attachment.

>

> William Manley

> z002594b@bcfreenet.seflin.lib.fl.us

> <http://ourworld.compuserve.com/homepages/bmanley>

>

> On Sat, 9 Dec 1995 n2czf@gate.net wrote:

>

> > Just wanted to throw this on the sig and see who else is having
> > this problem. A few sig members seem to be having a temporary file
> > attached to all of their postings so some strange reason or
> > another. Whenever I try to read the message I get a fatal error
> > and crash my system, now I try to delete any message that has a
> > file attachment without reading it and it still crashes!

> >

> > If anyone is aware of their system attaching files to messages
> > please try to correct it, I myself cannot just delete the message
> > or read it no matter what I do it crashes the system. If you see
> > someone with this problem please advise them, they themselves may
> > not see the attachment and may not be aware of the problem it

> > creates.
> >
> > Could this be some sort of "virus" seems harmless enough but
> > annoying? Some virus freak could think of it as funny and what a
> > "wonderful" way to annoy someone. Let one person in internet catch
> > it and let everyone that reads their mail need to deal with it!
> >
> > 73's De Rich N2CZF
> > n2czf@gate.net
> > Jupiter Farms Florida

Larry Griffin <largriff@onramp.net>

From rwf@mindspring.com Sun Dec 10 16:58:34 1995
Received: from borg.mindspring.com (root@borg.mindspring.com [204.180.128.14]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id QAA29811 for <aprssig@tapr.org>; Sun, 10
Dec 1995 16:58:31 -0600 (CST)
Received: from rwf.mindspring.com [168.121.44.154] by borg.mindspring.com
with SMTP id RAA26864 for <aprssig@tapr.org>; Sun, 10 Dec 1995 17:58:22 -0500
Date: Sun, 10 Dec 1995 17:58:22 -0500
Message-Id: <199512102258.RAA26864@borg.mindspring.com>
X-Sender: rwf@mindspring.com (Unverified)
X-Mailer: Windows Eudora Version 2.1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: rwf <rwf@mindspring.com>
Subject: Re: [APRSSIG:3783] Re: APRS Archives

Keith

Just got done with the Dallas Marathon.
Met Bob Winingham and even tracked him on APRS. He showed me the map you
did for the area. DeLorme?
It was nice. We played with MacAPRS at the dinner table in the BBQ place
last night as well.

APRS worked well for the marathon, but since I was not as familiar with Mac,
we used a the laptop of Claude Head and his APRS version 7.0

We'll be posting the track file soon.

See You later.

Ralph

BTW- I did get a few chances to rag on Bob W about his Mac, though. I
wouldn't be me if I didn't :)

From jeff.wallach@drig.com Sun Dec 10 16:59:02 1995

Received: from mail.holonet.net (root@guardian.holonet.net [198.207.169.11]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id QAA29829 for <APRSSIG@TAPR.ORG>; Sun, 10
Dec 1995 16:58:58 -0600 (CST)

Received: from drig (root@localhost) by mail.holonet.net with UUCP
id OAA04070; Sun, 10 Dec 1995 14:14:40 -0800

Received: by drig (PCB-UUCP 1.1f)
id 38EB39; Sun, 10 Dec 95 15:59:22 -0600

To: APRSSIG@tapr.org

Subject: [APRSSIG:5053] ARN BBS Down ???

From: jeff.wallach@drig.com (Jeff Wallach)

Message-ID: <59.46469.99.0C38EB39@drig.com>

In-Reply-To: <199512101702.MAA30838@tequesta.gate.net>

Date: Sun, 10 Dec 95 16:06:00 -0600

Organization: Dallas Remote Imaging Group 214-394-7325 <info@drig.com>

Rich,

betab.zip is also on the Dallas Remote Imaging Group FTP site,
at

ftp.drig.com /pub/aprs

or, on the dial-up BBS, at 214-492-7057

73s

jeff n5itu

```
*****
*****+-----+*****
*****|Dallas Remote Imaging Group BBS|*****
*****+-----+*****
*****
*****
*****+-----+*****+-----+*****
*****|Satellite Tracking      |****|Amateur Radio Programs |*****
*****|Satellite Imagery       |****|RTTY/SSTV/ATV/Satellite|*****
*****|Digital Image Process   |****|HAMCALL callsign lookup|*****
*****+-----+*****+-----+*****
*****
*****+-----+*****
*****| Welcome to the DRIG BBS   Fido 1:124/6509      |*****
*****|   On-Line Immediate Registration thru PLASTIC   |*****
*****|   (At Main Menu, type in PLASTIC for VISA/MC/AMEX) |*****
*****+-----+*****
*****
*****
```

Dallas Remote Imaging Group BBS (214) 394-7438
USR Dual Standard 28.8K Modems
24 HR. Operations

10 lines
P.O. Box 117088 Carrollton, TX. 75011-7088
FAX (214) 492-7747
For INFORMATION info@drig.com Internet INFO package
sent
sysop@drig.com Internet
1:124/6509 Fidonet

FTP ftp.drig.com (ftp 206.104.84.2)
WWW http://www.drig.com/ (http://206.104.84.2/)

telnet telnet bbs.drig.com (telnet 206.104.84.208)

For Automatic Request of various satellite elements, send email
to:

elements@drig.com (for NASA 2-line elements)
amsatkep@drig.com (AMSAT style explicit listing)
intelsat@drig.com (Intelligence satellites)
weathkep@drig.com (Weather Satellite keps)
shuttle@drig.com (Latest STS Shuttle mission
keps)
info@drig.com (Info on Dallas Remote Imaging
Group)

From gerry@cs.tamu.edu Sun Dec 10 18:07:24 1995
Received: from cs.tamu.edu (clavin.cs.tamu.edu [128.194.130.106]) by sys1.tapir.org
(8.7.2/8.7.2) with SMTP id SAA04212 for <aprssig@tapir.org>; Sun, 10 Dec 1995
18:07:22 -0600 (CST)
Received: from solar.cs.tamu.edu (2961@solar.cs.tamu.edu [128.194.132.1]) by
cs.tamu.edu (8.6.10/8.6.4) with ESMTP id SAA19825 for <aprssig@tapir.org>; Sun, 10
Dec 1995 18:06:35 -0600
From: Gerald J Creager <gerry@cs.tamu.edu>
Received: (gerry@localhost) by solar.cs.tamu.edu (8.6.10/8.6.4) id SAA15319 for
aprssig@tapir.org; Sun, 10 Dec 1995 18:06:29 -0600
Message-Id: <199512110006.SAA15319@solar.cs.tamu.edu>
Subject: Re: [APRSSIG:5061] Re: File attachments on General Sig Postings
To: aprssig@tapir.org
Date: Sun, 10 Dec 1995 18:06:29 -0600 (CST)
In-Reply-To: <Pine.3.89.9512101543.A8073-01000000@bcfreenet.seflin.lib.fl.us> from
"William Manley" at Dec 10, 95 03:06:57 pm
X-Mailer: ELM [version 2.4 PL24]
Content-Type: text

William Manley sez:

>
> An alert appeared on CIS a few weeks ago warning users to be careful of
> attachments to unsolicited email messages. It seems that, in some cases,
> a virus is passed.
>
> It was advised that if the email is from an unknown party then do not
> read the attachment.

With the day of attachments, that is now a reality. I've not gotten a CERT message concerning this, however. Sounds like a reprise of the fabled "Good Times Virus" which actually was a fake, and caused its disruption by the bandwidth it wasted.

I suspect most of the folks with the attachments are running Windoze9x. The mailer is hosed. Microsoft is aware of it, and has told folks I work with who tried to get a fix that it would not be a problem if everyone was running Windoze 97. for the record, Eudora doesn't have the problem.

73, gerry

From bruninga@nadm.navy.mil Sun Dec 10 20:09:45 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id UAA07415 for <aprssig@tapr.org>; Sun,
10 Dec 1995 20:09:42 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
VAA26693; Sun, 10 Dec 1995 21:10:02 -0500
Date: Sun, 10 Dec 1995 21:10:02 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: amsat-bb@amsat.org
cc: aprssig@tapr.org
Subject: APRtrak
Message-ID: <Pine.SUN.3.91.951210210350.26677A-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

If you are going to be using APRtrak for the upcoming SPARTAN payload to be launched 11 January, be sure you get version 0.5. The first release was version 0.4 at the Orlando AMSat conference in October. Its flaw is that it is STUCK in Eastern Daylight Time Zone. It will work by forcing your clock to EDT time zone, but there have been a few other improvements also, that should encourage you to get 0.5.

You can see the version # on the start-up screen and on the F1-Help screen. Version 0.4 will be dated in October, and version 0.5 will be dated in November...

Before 11 Jan, I will put out some helpful hints on operation. In the mean time, play with it. A good practice is to use it to monitor the MIR downlink. Read the various README files until then... Good luck.

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

From bruninga@nadm.navy.mil Sun Dec 10 20:22:11 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id UAA07874 for <aprssig@tapr.org>; Sun,
10 Dec 1995 20:22:09 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
VAA26744; Sun, 10 Dec 1995 21:22:32 -0500
Date: Sun, 10 Dec 1995 21:22:31 -0500 (EST)

From: Bob Bruninga <bruninga@nadn.navy.mil>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5052] Hooking up U-2000
In-Reply-To: <199512101542.KAA21339@moose.erie.net>
Message-ID: <Pine.SUN.3.91.951210211938.26677C-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 10 Dec 1995, David G. Henderson wrote:

> Tom, N3HPR, just got his new U-2000. He also has APRS version 74c
> installed; he is registered for weather; and has done an Alt-S to validate.
> But the weather is not being received by APRS--nonsensical info and improper
> numbers and letters are displayed at top of screen

APR REPLY: He should be at the standard rate of 2400 for all ULTIMETERS.
He should use the U-2000 in the mode which outputs continuously if he is
dual ported. He should use the packet mode if he is making a REMOTE WX
station.

In the U-2000 the output may already be RS-232 and not need the -v pull
down resistor like the U-II required... I'll check...

From hammock@tis.telos.com Sun Dec 10 22:03:57 1995
Received: from tis.telos.com (tis.telos.com [198.116.7.53]) by sys1.tapr.org
(8.7.2/8.7.2) with SMTP id WAA11275 for <APRSSIG@tapr.org>; Sun, 10 Dec 1995
22:03:54 -0600 (CST)
Received: (hammock@localhost) by tis.telos.com (8.6.12/8.6.4) id XAA22209; Sun, 10
Dec 1995 23:05:40 -0500
Date: Sun, 10 Dec 1995 23:05:40 -0500 (EST)
From: Randy Hammock <hammock@tis.telos.com>
To: APRSSIG@tapr.org
Subject: GPS45 & KPC-3 Tracker
Message-ID: <Pine.SOL.3.91.951210224610.22145B-100000@zentropa>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Friday, I received my Garmin GPS-45. After about 30 minutes of checking
manuals and doing a bit of soldering, I had the tracker up and running
without any problems. The settings may still need a bit of tweaking but
that should not be too much trouble. The KPC-3 was configured to provide
power to pin 25 of the DB-25 connector and the GPS-45 power/data cable was
wired accordingly (w/.25 amp fuse). Power to the KPC-3 comes in via the
usual coaxial power connector. When running mobile, I use the Radio Shack
window clip with a 90 degree BNC adapter to mount the antenna outside of
the cab of my truck. Still need to do something for a radio for the
tracker but my mobile rig will suffice for the time being. Now, all I
need to do is get APRS running on my system at home so that I can see the
tracks. I have not checked but I believe APRS will run on a 286 with CGA
video (never felt the need for the latest golly gee whiz computer).

Let me know if you've seen KC6HUR show up in the Balt-Wash area.

--

| | |
|---------------------------------------|-------------------------|
| Randy Hammock KC6HUR | Randy.Hammock@Telos.com |
| Telos Information Systems - EDOS | hammock@gmd.trw.com |
| 7474 Greenway Center Drive; Suite 400 | Voice: +1 301 507-5904 |
| Greenbelt, Maryland 20770 | FAX: +1 301 507-5892 |

From DDOBBINS@aol.com Sun Dec 10 22:29:27 1995

Received: from emout05.mail.aol.com (emout05.mail.aol.com [198.81.10.37]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id WAA11987 for <aprssig@tapr.org>; Sun, 10 Dec 1995 22:29:22 -0600 (CST)

From: DDOBBINS@aol.com

Received: by emout05.mail.aol.com (8.6.12/8.6.12) id XAA21371 for aprssig@tapr.org; Sun, 10 Dec 1995 23:28:50 -0500

Date: Sun, 10 Dec 1995 23:28:50 -0500

Message-ID: <951210232806_50482119@emout05.mail.aol.com>

To: aprssig@tapr.org

Subject: HONOLULU MARATHON LESSONS LEARNED

APRS was present at the 23rd running, and the largest ever, Honolulu Marathon on December 10th. Still awaiting the final numbers, but there were an expected 32,000 finishers at this year's race.

Here are my observations:

- 1) We had APRS set up in the "communications" tent, sharing with MARS, Voice Ham, Police, and medical. The medical treatment tent was right next door.
- 2) I used APRSDR program. It worked as advertised. I extracted an area from the Oahu map that covered the race route, then added the purple #13 line segment over the route. I added mile markers and first aid stations for visual reference. I used a laptop/display for me, with external color monitor pointed toward the rest of the gang.
- 3) We had two GPS standalone trackers in operation, for the LEAD MALE and LEAD FEMALE. These were mounted in electric pickup trucks and did not experience/cause any interference. Both trackers used KPC-3 and Trimble GPS units, one had an HTX-202 and the other an MFJ-8621 data radio. Both performed flawlessly. Position reports were sent once each 45 seconds thru a RELAY,WIDE digi, every 2 mins for the WIDE digi, and every 10 mins for the WIDE,GATE,GATE,WIDE digi. We needed to buy cigarette lighter splitters for both vehicles and the "black lights" used to highlight the time clock atop the vehicle also needed to be plugged in.
- 4) On the eve before the race I reprogrammed the calls of both TNCs to LM and LF, then input the actual owner's call in the BTEXT @ 9 mins. I checked operation on my Macintosh at home, and both locked on and tracked. HOWEVER !!!!! on the next morning when I activated APRSDR I could see the position reports across the screen, but APRS WOULD NOT LOG OR TRACK THEM. OUCH !!! My first suspicion was right, the call sign must include a number. I remotely changed the LF TNC to 6LF, and it worked. For some unknown reason (I haven't checked it yet) I could not log on remotely to the LM. Therefore, I input the LM manually and tracked it at 9 kts.

5) I input the LHC (Lead Handicapped - wheelchair) at 14 kts, but don't know if that was close enough. Gotta admire that gang. Wow!

6) I input the Bikes at 12 kts. I remember seeing the first wheelchairs finish before the bikes. Can't believe that, but that's what I saw.

7) I input the lead group of the pack at 6 kts. That worked out just fine.

8) There was only a little interest displayed in APRS. None of the race coordinators or officials came over to see the display, but we did respond with position information at least a minute ahead of the voice reports. Our "visibility" issue is one we'll improve on next year.

9) The general response to APRS was:

- What is that? Wow, way cool. (When I heard this I had to look up to see if Keith Sproul was here)

or

- What is that? Oh, ok

Overall I'm quite satisfied with the APRSDR program. Comments from the field confirmed that as the APRS gang logged on and watched the race from the comfort of their own home. Msgs were minimal, so not a disruption.

What I'd like to see:

a) A symbol for a runner.

b) Ability to enter LM or LF or Pack or whatever as the mycall of the TNC, and have APRS process it.

That's about it. I've been an APRS user now for almost 3 years and this was truly the first time I've USED APRS for some benefit. I encourage you APRSers out there to find some civic activity and get involved, like the support to balloon events, DFing, sailing races, etc.

Aloha. Now that the race is over, it's time for the beach. Dave.

From bruninga@nadm.navy.mil Sun Dec 10 23:25:14 1995

Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id XAA13808 for <aprssig@tapr.org>; Sun, 10 Dec 1995 23:25:10 -0600 (CST)

Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id AAA27351; Mon, 11 Dec 1995 00:25:32 -0500

Date: Mon, 11 Dec 1995 00:25:32 -0500 (EST)

From: Bob Bruninga <bruninga@nadm.navy.mil>

To: aprssig@tapr.org

Subject: Hawaii MARATHON OOPS!

Message-ID: <Pine.SUN.3.91.951211002038.27299G-100000@greatlakes>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

What got Dave "the-morning-of" the marathon and not tracking the callsigns of LM and LF was a GOTCHA.... Sorry...

But in all the error checking that APRS is doing to try to understand all the packets and to reject things that dont look like good packets, I have made the assumption that CALLSIGNS are at least 4 characters long!

But then I backed off from that when I needed my first 3 letter application. SO APRS NEEDS TO SEE AT LEAST A 3 LETTER CALLSIGN ON THE AIR.

Yes you can SEND shorter "names" for OBJECTS, but NOT for on-air calls...

Sorry dave...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

From bruninga@nadm.navy.mil Sun Dec 10 23:40:06 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id XAA14467 for <aprssig@tapr.org>; Sun,
10 Dec 1995 23:40:03 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
AAA27394; Mon, 11 Dec 1995 00:40:26 -0500
Date: Mon, 11 Dec 1995 00:40:25 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapr.org
Subject: Sample 100K map
Message-ID: <Pine.SUN.3.91.951211003220.27384A-1000000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I just posted MSmaps02.zip which is the result of a few hours worth of tweaking the raw 1 mile maps produced by KE4EER using MKMAPHK. I posted a long detailed description of the processes I go through to take the minimum street level detail and then try to put it together into a system of "seamless" maps. A picture is worth 1000 words. If you want to see how I took the 12 original 1 mile maps and combined them into only 4 maps plus added detail to the original 8 mile map, then zoom into these maps of Hattiesburg Mississippi.

I did this in anticipation of a commercial application. If the paying customer comes through, then I would consider these maps to still need another round of effort on my part to build redundant layers of maps going north and south, to provide seamlessness in that direction also...

To see the flavor of what I did, use the MAPS-BORDERS command. You wont see the original 1 mile grid (4 maps horizontally by 3 maps vertically) but you can see the result of my combinations...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

From wd5ivd@tapr.org Mon Dec 11 01:12:53 1995
Received: (from wd5ivd@localhost) by sys1.tapr.org (8.7.2/8.7.2) id BAA22349 for
aprssig@tapr.org; Mon, 11 Dec 1995 01:12:52 -0600 (CST)

From: Greg Jones <wd5ivd@tapr.org>
Message-Id: <199512110712.BAA22349@sys1.tapr.org>
Subject: Re: [APRSSIG:5061] Re: File attachments on General Sig Postings
To: aprssig@tapr.org
Date: Mon, 11 Dec 1995 01:12:52 -0600 (CST)
In-Reply-To: <Pine.3.89.9512101543.A8073-0100000@bcfreenet.seflin.lib.fl.us> from
"William Manley" at Dec 10, 95 03:06:57 pm
X-Mailer: ELM [version 2.4 PL24]
Content-Type: text

This rumor goes around from time to time.

Viruses must be run in some manner (executed) in order to bring them to life - so to say. The typical ones are stored as programs although there are other ways to do it. There are a number of sites on the Internet that go into more detail.

Viewing an e-mail, attachment in an e-mail or even saving the attachment shouldn't cause any problems. E-mail and attachments are just data files. They are not run or executed -- they are just saved. What happens though is that someone sends you something as an attachment (program), you save it - then you want to look at it -- you run it. Then you if the program is infected -- you probably have it.

Just receiving mail (data) from someone via your e-mail account, should not infect you with any form of computer viral infection. Especially if the attachment is a text file.

So -- feel safe in using e-mail.

The secret to having safe software is:

1. Run a virus protection/detection from time to time.
2. If you like -- run scanning software on new software or keep it running all the time.
3. Backup your system and make sure you keep at least a set of old backups around in case something goes wrong with a virus. A lot of time people backup over the old data tapes, without saving at least one generation of backups. If you keep a backup and you do get infected -- and you can't eliminate the virus. Just wipe everything and restore.
4. Like any virus -- if you frequent community areas -- you have a good chance of catching a cold from someone else.

Just to put this in perspective, I have never had a problem with a virus (knock on wood). Most people I know don't have problems with virus infestations. Just use common sense and if you download something -- and you don't know the source be sure to check it.

Now go forth and have fun and don't worry -- just take the necessary precautions.

Cheers - Greg

>
> An alert appeared on CIS a few weeks ago warning users to be careful of
> attachments to unsolicited email messages. It seems that, in some cases,
> a virus is passed.
>
> It was advised that if the email is from an unknown party then do not
> read the attachment.
>
> William Manley
> z002594b@bcfreenet.seflin.lib.fl.us
> <http://ourworld.compuserve.com/homepages/bmanley>
>
> On Sat, 9 Dec 1995 n2czf@gate.net wrote:
>
> > Just wanted to throw this on the sig and see who else is having this problem.
> > A few sig members seem to be having a temporary file attached to all of their
> > postings so some strange reason or another. Whenever I try to read the message
I
> > get a fatal error and crash my system, now I try to delete any message that
has
> > a file attachment without reading it and it still crashes!
> >
> > If anyone is aware of their system attaching files to messages please try to
> > correct it, I myself cannot just delete the message or read it no matter what
I
> > do it crashes the system. If you see someone with this problem please advise
> > them, they themselves may not see the attachment and may not be aware of the
> > problem it creates.
> >
> > Could this be some sort of "virus" seems harmless enough but annoying? Some
> > virus freak could think of it as funny and what a "wonderful" way to annoy
> > someone. Let one person in internet catch it and let everyone that reads their
> > mail need to deal with it!
> >
> > 73's De Rich N2CZF
> > n2czf@gate.net
> > Jupiter Farms Florida
> >
> >
> >
> >
>
>

From n4byu@nr.infi.net Mon Dec 11 07:54:43 1995
Received: from moe.infi.net (moe.infi.net [198.22.1.119]) by sys1.tapir.org
(8.7.2/8.7.2) with SMTP id HAA02534 for <aprssig@tapir.org>; Mon, 11 Dec 1995
07:54:41 -0600 (CST)

Received: from h-arthahies.nr.infi.net by moe.infi.net with SMTP
(Infinet-S-3.3) id IAA11505; Mon, 11 Dec 1995 08:54:35 -0500
Date: Mon, 11 Dec 1995 08:54:35 -0500
Message-Id: <199512111354.IAA11505@moe.infi.net>
X-Sender: n4byu@nr.infi.net
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org, Michael Walker <mwalker@gold.interlog.com>
From: n4byu@nr.infi.net (Roy Smith)
Subject: Re: Hope you're better!

You got me. But I have other problems. I think it is old age catching up
with me.. C U over coffee..

>
>Lost your online address. If you receive this please respond.
>Hope you have lost that pneumonia along the way too.
>
>73,
>Howard
>
>

From willf@rrgroup.com Mon Dec 11 09:37:02 1995
Received: from rrgroup3 (rrgroup3.rrgroup.com [204.95.173.65]) by sys1.tapr.org
(8.7.2/8.7.2) with SMTP id JAA06318 for <aprssig@tapr.org>; Mon, 11 Dec 1995
09:36:59 -0600 (CST)
Received: by rrgroup3 with Microsoft Mail
id <01BAC7AB.DD432490@rrgroup3>; Mon, 11 Dec 1995 09:34:27 -0600
Message-ID:
<c=US%a=rrgroup%p=RRSystemsGroup%l=RRGROUP3951211093425AE005C00@rrgroup3>
From: Willson Flor <willf@rrgroup.com>
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Subject: RE: [APRSSIG:5058] Re: KC7KEZ Christmas Party on HF APRS, Dec. 10
Date: Mon, 11 Dec 1995 09:34:24 -0600
MIME-Version: 1.0
Content-Type: multipart/mixed; boundary="-----=_NextPart_000_01BAC7AB.DD4C4C50"

-----=_NextPart_000_01BAC7AB.DD4C4C50
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable

You wrote:

From: Mark Farver (KB9JMZ)[SMTP:farver@uwplatt.edu]
Sent: Sunday, December 10, 1995 12:56PM
To: aprssig@tapr.org
Subject: [APRSSIG:5058] Re: KC7KEZ Christmas Party on HF APRS, Dec. 10

. At 12:36 PM 12/9/95 -0600, you wrote:
. >The Jefferson County Amateur Radio Club, KC7KEZ, will be on the air f=

rom
. >Port Townsend, WA demonstrating HF APRS on 10151.5MHz for its annual
. >Christmas party, Sunday Dec. 10.
.=09
. I may be a newbie... but isn't 10151.5 _MHz_ X-band microwave, not HF=
?
.=09

I don't know anyone from the KC7KEZ club (although I've been to their home town - in one of the most beautiful areas of the US, IMNSHO) but I'm pretty sure they meant 10151.5 KHz, which is in the 30-meter amateur HF band.

. Mark
. KB9JMJ

73 de KB9JTT, willf@rrgroup.com
About 7 miles from the Great Lakes, but a little farther from Greatlakes,= and farther yet from Port Townsend, Washington.

----- =_NextPart_000_01BAC7AB.DD4C4C50
Content-Type: application/ms-tnef
Content-Transfer-Encoding: base64

eJ8+IhwPAQaQCAAEAAAAAAAAABAAEAAQeQBGAIAAAAA5AQAAAAAAAAADoAAEFgAMADgAAAMsHDAALAaKa
IgAYAAEALQEBCYABACEAAAAyREY2QjI3MDc0MzJDRjExQUZFMjAwMjBBRkYwNEQ2MgAlBwEggAMA
DgAAAMsHDAALAaKaIgAbAAEAMAEBCIAHABgAAABJUE0uTWljcm9zb2Z0IE1haWwuTm90ZQAxCAEE
gAEAQgAAAFJF0iBbQVBSU1NJRzo1MDU4XSBSZTogS0M3S0VaIENocm1zdG1hcyBQYXJ0eSBvbiBI
RiBBUFJTLCEBZWMuIDEwALQSAQ2ABAACAAAAAGACAAEDkAYA9AUAAABIAAAALACMAAAAAAAsAKQAA
AAAAAAwAmAAAAAADADYAAAAAAB4AcAABAAAAAPgAAAFtBUFJTU0lHOjUwNThdIFJlOiBLQzdLRVog
Q2hyaXN0bWZlZlBhcnR5IG9uIEhGIEFQUlMsIERlYy4gMTAAAAACAXEAAQAAABsAAAABusc3FLdw
svQCMnQRz6/iACCv8E1iACmmurMAAwAGEEw9u7kDAACQzwIAAB4ACBABAABAAZQAAAF1PVVdST1RF
0i0tLS0tLS0tLS1GUK9N0K1BUktGQVJWRVToS0I5Sk1akVNNVFA6RkFSVkvSQFVXUExBVFRFRFVT
RU5U0lNVTkrBWSxERUNFTUJFUjEwLDE5OTUxMj01NlBNVE8AAAAAAwAQEAAAAAADABEQAQAAAAIB
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BsMCGzIDxQIAcHJCcRHic3RlbQKDM7cDxgcTAoM0AuQU5X0KgIsIzwnZ0xc/MjU1AoAvCoQLNxBW
C/JjAEAgWkIYCB3A2AT0DoKi2wQaTE4MALRaS0xPDQ0DfAM0B1zC1kxNusKoBuyYwVALR+XCoc
S+sMMB8WRgNh0iCeHxYmg1sF0ArAayIgCsB2BJAgAchLQjlKTvopgFtTTVRQ0mYks1hAdXcLUQJA
LgmAdX5dID8hTQZgAjAify0LUwB1bmRheSwgREsFkBPgYiThMTAroDEIOTk1LEAyOjU2zFBNJy8h
TVRvKW8ji8ZhE1AEEGlnQAGQE1AaLgWwZy1fKD51YmoHH1EvfyOLW0FQUlMIU01HLQAwNThdAwfw
G+AgS0M3S0XwWiBDAUQE8AAwAQgILAKwHR5IAIgIEjuRhTQNsEroy4sQQqFHA3TAcEdMjM2AeEq
CqAlkNE8sGx2bAJgdDyhaEH/PLALgA2wAjA8QzywDNACUPxcJwGwFlALRhRSDAEffj0+c2U+wBDS
PwEMgn1BLwVALOE8QDjQTSzRLzmzQuAswC0wPFAsYXkbfGNaZ0HRP1RoZSBKew3BBJBz0UEIUQIw
OSBBDwDAE9AIAcAfwYWRpb3s4MApAYiugN9QroAPwbPcDICwQOTJ0RiELcAXAA1LbRF9FaVAW4S9B
dwCACfDiZCugV0EgDbAEYACA7HRyJqALGc5ZjkyLFAAMTUxLjVNSHozSkAFsW10BCAACG51/wdA
Sp9FaThICrE5ECugK0Q90fyUJ9BaFRfQWhJIEcAwDkgSXFhIG4H0GJtCJAuWMBJYHUFQAQAbiYn
QhFPFCBfT3FfIFAgWC1iAHBkV8Bp2wUATLBhJNAroG4bwDlh/j8yXT/UVm9VyRnvGvVex1XsGQC
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P2ThTMAfgE/gA6BiIm9mb0nDBGATwElhYVkBpB1XwMgCsBngAQgZrVV0dFJwE10U0hPKVjzZFDv
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YHVWl1sFoEqGQqBgWRE3WvFsGweRYmdHaCEfQExha/8HkCugWQJYQBzQAkB/0EpA/zjxRiBKNICU

C2CBI1rCgkb+eRHAYlRMXjiwbHBOIGTwFm5u7RZhAIfgAAAAQAA5AKChFybex7oBAGFHAAEAAAA/
AAAAyz1VUzthPXJyZ3JvdXA7cD1SUlN5c3RlbXNHcm91cDtsPVByaXZhdGUgTURCLTk1MTIxMTE1
MzQyNFotMTQAAEAABzCAhUqN3ce6AUAACDAQZ04n3se6AR4APQABAAAABQAAAFJF0iAAAAAAAgEU
NAEAAAAQAAAAVJShwCl/EBulhwgAKyo1F7XB

----- =_NextPart_000_01BAC7AB.DD4C4C50--

From willf@rrgroup.com Mon Dec 11 10:03:00 1995
Received: from rrgroup3 (rrgroup3.rrgroup.com [204.95.173.65]) by sys1.tapr.org
(8.7.2/8.7.2) with SMTP id KAA07130 for <aprssig@tapr.org>; Mon, 11 Dec 1995
10:02:57 -0600 (CST)
Received: by rrgroup3 with Microsoft Mail
id <01BAC7AF.862CFF10@rrgroup3>; Mon, 11 Dec 1995 10:00:39 -0600
Message-ID:
<c=US%a=rrgroup%p=RRSystemsGroup%l=RRGROUP3951211100037AF005C00@rrgroup3>
From: Willson Flor <willf@rrgroup.com>
To: "'aprssig@tapr.org'" <aprssig@tapr.org>
Subject: RE: [APRSSIG:5059] Re: 145.820??
Date: Mon, 11 Dec 1995 10:00:37 -0600
MIME-Version: 1.0
Content-Type: multipart/mixed; boundary="----- =_NextPart_000_01BAC7AF.86331990"

----- =_NextPart_000_01BAC7AF.86331990
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable

You wrote:

From: David W. Barrow III[SMTP:dbarrow@omnifest.uwm.edu]
Sent: Sunday, December 10, 1995 1:16PM
To: aprssig@tapr.org
Subject: [APRSSIG:5059] Re: 145.820??

. Tom,
.=09
. Where did you get the idea that 145.79 is coordinated to APRS?=
I am
. the Frequency Coordinitor for the Wisconsin Association of Repeaters - =
and=20
. WE (WAR) have NOT done that. I have NOT been notified that anyone el=
se=20
. has coordinated anything in this state.
.=09
. Merry Christmas!
.=09
. Dave Barrow, N9UNR
. FC-WI WAR-MACC
. n9unr@execpc.com (PREFERRED)

WAR coordinating packet?? WOW!!! That's news to me! I was under the imp=
ression that digital modes were coordinated in WI by WAPR (Wisconsin Amat=
eur Packet Radio) via Steve KE9LZ. As far as specific coordinations of 1=

45.79, I know not.

If I am incorrect about this PLEASE inform me - inquiring minds want to know ; -)

Merry Christmas
73 de KB9JTT
New Berlin, Wisconsin

----- =_NextPart_000_01BAC7AF.86331990
Content-Type: application/ms-tnef
Content-Transfer-Encoding: base64

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DgAAAMsHDAALAAoAAAAAAnAAEAGwEBCIAHABgAAAABJUE0uTWljcm9zb2Z0IE1haWwWuTm90ZQAxCAEE
gAEAIQAAAAFJF0iBbQVBSU1NJRzo1MDU5XSBSZTogMTQ1LjgyMD8/AOAHQ2ABAACAAAAAAGACAAED
kAYAEAYAAABIAAAAAALACMAAAAAAAsAKQAAAAAAAwAmAAAAAADADYAAAAAAB4AcAABAAAAHQAAAFtB
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ZGIpw0ADcAMAZoEHkHQudXdtLgmA/HVdJQ8mHQZgAjAnTyhbGfN1bmRheSwpEIsFkBPgYgSQIDew
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NI8oW1tBUABSU1NJRzo1MDg10V0H8CCwMWA0NeQuOAHQPz8KhSDdAcF3IgI4UQAAKggqC5BA0Gz0
dmwCYHRAwQBBQNALgD8NsAIwQGNA0AzQA1BcJ38BsBnQC0YUUGwBI+ZCk2XPQuAQ0kMhDIJ9IEY1
NGD8bSwKhUTvrfFG70WPKXCiaASQZSBkKVf5IEFSZxHAHHRK0CApUGWaYUvRYQVAPgI30UwQ7wQg
BaAFsEsgbkYQCYBL0FZvFNA88T9GIEk2UG1PSJ9JqEviJwBlcQpQbvhjeSAIUE2DTiAFwAIQewXA
S+JXBAAFoACBA6BBSQQQb2MHMHRpAiAg9G9mPbFwTEAT0BGgJFAfN1AwgD72T39F8VdFIEAoV0FS
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EAAAAFSUocApfxAbpYcIACsqJRca3A==

----- =_NextPart_000_01BAC7AF.86331990--

From daveh@moose.erie.net Mon Dec 11 10:47:52 1995
Received: from moose.erie.net (root@moose.erie.net [199.234.142.2]) by
sys1.tapir.org (8.7.2/8.7.2) with SMTP id KAA09166 for <aprssig@tapir.org>; Mon, 11
Dec 1995 10:47:49 -0600 (CST)

Received: from slip2.erie.net (slip2.erie.net [199.234.142.202]) by moose.erie.net (8.6.11/8.6.9) with SMTP id LAA11752 for <aprssig@tapr.org>; Mon, 11 Dec 1995 11:46:23 -0500
Message-Id: <199512111646.LAA11752@moose.erie.net>
X-Sender: daveh@moose.erie.net
X-Mailer: Windows Eudora Light Version 1.5.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Mon, 11 Dec 1995 11:47:55 -0500
To: aprssig@tapr.org
From: "David G. Henderson" <daveh@moose.erie.net>
Subject: Re: [APRSSIG:5070] Re: Hooking up U-2000

Bob,

I'm continuing this discussion on the SIG so others who have an occasion to hook up the new U-2000 can benefit:

At 08:29 PM 12/10/95 -0600, you wrote:

>
>On Sun, 10 Dec 1995, David G. Henderson wrote:
>
>> Tom, N3HPR, just got his new U-2000. He also has APRS version 74c
>> installed; he is registered for weather; and has done an Alt-S to validate.
>> But the weather is not being received by APRS--nonsensical info and improper
>> numbers and letters are displayed at top of screen
>
>APR REPLY: He should be at the standard rate of 2400 for all ULTIMETERS.
>He should use the U-2000 in the mode which outputs continuously if he is
>dual ported. He should use the packet mode if he is making a REMOTE WX
>station.

He is two port. I assume (correct me, if wrong) that the program sets the Wx computer comm port for the correct speed--2400 baud. AND, that the speed setting selected during program initialization (in his case 4800 baud) only affects the TNC port.

>In the U-2000 the output may already be RS-232 and not need the -v pull
>down resistor like the U-II required... Ill check...

WX.TXT has the following line which leads me to believe that a different cable should be used: "The U-2000 is directly RS-232 and needs no pull down resistor." However, N3HPR said that documentation (and the salesman, who he talked to, and who knew that he was interfacing with APRS) did not indicate that the cable was different. There is a cable and software package offered with the U-2000. But HPR did not use the software package he bought with the U-II so he didn't order the software for the U-2000. I suspect that that cable is different. And this is the real problem. He will have to talk to them and possibly order that cable. He wants to keep the other cable as he is planning to run the U-II as a remote unit from his summer cottage.

When we get this all straightened out, we'll report back to the SIG the final results.

73, Dave, N3EOY

```
*****
* David G. Henderson                      daveh@moose.erie.net *
* Amateur Radio: N3EOY                    n3eoy@wa3zca.#nwpapa.usa.noam *
* Emergency Coordinator, Erie County PA SKYWARN *
* Township Supervisor, Franklin Township, Erie Co., PA *
* Work Phone: 814-734-3521 (7 am-3 pm); Fax: same, voice first *
* Home Phone: 814-734-4623; Fax: same, voice first *
* Digital Pager: 814-452-9263 *
*****
```

From ke4eer@ro.com Mon Dec 11 12:40:02 1995

Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tappr.org (8.7.2/8.7.2) with SMTP id MAA12880 for <aprssig@tappr.org>; Mon, 11 Dec 1995 12:39:59 -0600 (CST)

Received: from ts1p3.ro.com (ts1p3.ro.com [205.216.92.23]) by sh1.ro.com (8.6.9/8.6.9) with SMTP id NAA04784 for <aprssig@tappr.org>; Mon, 11 Dec 1995 13:47:20 -0600

Message-Id: <199512111947.NAA04784@sh1.ro.com>

X-Mailer: InternetWorks Mail and News 1.1

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Date: Mon, 11 Dec 1995 12:39:39

From: ke4eer@ro.com (William Nolle)

To: aprssig@tappr.org

Subject: Tapr Problems

There must be a software bug got into the Tapr system again hi. In an attempt to connect to FTP a file i got the message connection refused. O well things like that will happen when playing with Bits and Bytes i guess.

I wanted to upload a revised map layout for Hattiesburg,MS that i would like APRS users to download and look at and give me some feedback on how you like the setup. I am constantly trying my best to improve on the street level map layouts. When installing these maps there's also a text file that will be placed in your readme directory i would like you to read this before trying the maps so you will know what to look for in this layout. Hopefully with all of us mapmakers working on these we can come up with the most usable layout for all of us. PLEASE take a look at these and don't forget the feedback (Flames or otherwise)(Good or no good), Thank you.....

By the way if i can get to upload the file it's name will be MSMAPS03.ZIP

Bill KE4EER

ke4eer@ro.com

From LASCELL@lecs.ericsson.se Mon Dec 11 15:23:05 1995

Received: from mailgate.ericsson.se (mailgate.ericsson.se [130.100.2.2]) by sys1.tappr.org (8.7.2/8.7.2) with SMTP id PAA05687 for <aprssig@tappr.org>; Mon, 11 Dec 1995 15:22:59 -0600 (CST)

Received: from edt02.ericsson.se (edt02.ericsson.se [136.225.9.4]) by mailgate.ericsson.se (8.6.11/1.0) with ESMTP id WAA16257 for <aprssig@tappr.org>; Mon, 11 Dec 1995 22:22:54 +0100

Received: from DECNET-MAIL (LASCELL@LECS)
by edt.ericsson.se (PMDf V5.0-5 #13379)
id <01HYP3TSLTM094FI33@edt.ericsson.se> for aprssig@tapr.org; Mon,
11 Dec 1995 22:22:21 +0100
Date: Mon, 11 Dec 1995 22:22:21 +0100
From: "PETER L. LASCELL" <LASCELL@lecs.ericsson.se>
Subject: Attached garbage
To: aprssig@tapr.org
Message-id: <01HYP3TSMMKI94FI33@edt.ericsson.se>
X-VMS-To: EDS::IN%"aprssig@tapr.org"
MIME-version: 1.0
Content-type: TEXT/PLAIN; CHARSET=US-ASCII
Content-transfer-encoding: 7BIT

Message forward to APRSSIG

From: "willf@rrgroup.com" "Willson Flor"
Subject: Attached Garbage

11-DEC-1995 15:59:46.30

Well, if **this** message also has no garbage, I have indeed found the trick.

Unfortunately, for reasons completely unrelated to this, my ISP (my employer) has "lowered the boom" about an hour ago as I write this and decreed that nobody here may use e-mail, web access, etc. for **anything** other than traffic related to our business, which is (of course) unrelated to APRS. Therefore, I have unsubscribed to APRSSIG :-(

If you would like to post it, or just file it away for reference, here it is:

In Microsoft Exchange **Server** set every domain to which you send mail as a domain to **not** send MIME-encoded files to (MIME is the default, and **every** domain has to be entered seperately.) Then, when responding to e-mail, formulate your response and **paste it** into a new message, then send. As long as you don't respond, but instead send a new message, and as long as it's not MIME-encoded, the problem seems to not exist.

73 de KB9JTT (Just a few miles from the Great Lakes, but oh so far from the APRSSIG.....)

Hope to be back on APRSSIG with a different ISP soon - 'til then, see you on the radio.

From philkeys@olympus.net Mon Dec 11 15:43:57 1995

Received: from olympus.net (root@olympus.net [198.133.237.1]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id PAA06481 for <aprssig@tapir.org>; Mon, 11 Dec 1995 15:43:53 -0600 (CST)
Received: from [198.133.237.52] (ptpm022.olympus.net [198.133.237.52]) by olympus.net (8.6.12/8.6.12) with SMTP id NAA28787 for <aprssig@tapir.org>; Mon, 11 Dec 1995 13:46:24 -0800
X-Sender: philkeys@pt.olympus.net
Message-Id: <v01510100acf2546cd9ae@[198.133.237.37]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Mon, 11 Dec 1995 13:44:11 -0800
To: aprssig@tapir.org
From: philkeys@olympus.net (Phil Keys)
Subject: Re: [APRSSIG:5077] Re: KC7KEZ Christmas Party on HF APRS, Dec. 10

Hello Mark

You're right, I goofed. Meant KHz instead of MHz.

KC7KEZ is a new club call for the Jefferson County Amateur Radio Club.

Come visit us again.

73

Phil Keys

philkeys@pt.olympus.net (Phil Keys) KJ7ET Jeff Co Search & Rescue
Software Consultant - specializing in software safety & SQA
Port Hadlock, WA 98339 (360) 379-8650 122 44.0W 48 02.0N

From JayMillard@aol.com Mon Dec 11 16:25:10 1995
Received: from emout04.mail.aol.com (emout04.mail.aol.com [198.81.10.12]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id QAA08350 for <aprssig@tapir.org>; Mon, 11 Dec 1995 16:25:08 -0600 (CST)
From: JayMillard@aol.com
Received: by emout04.mail.aol.com (8.6.12/8.6.12) id RAA02861 for aprssig@tapir.org; Mon, 11 Dec 1995 17:24:33 -0500
Date: Mon, 11 Dec 1995 17:24:33 -0500
Message-ID: <951211172425_70107182@emout04.mail.aol.com>
To: aprssig@tapir.org
Subject: Newbie Questions

I have been following the SIG for about three months, but just recently got <on the air> with MacAPRS. It is very cool. My current system consists of a Mac Iici running version 2.1.2, Yaesu 736R and AEA PK-232MBX TNC. There are some areas of APRS in general that the documentation that I have access to hasn't addressed. Some of the questions relate to a subject near and dear to your hearts: UNPROTO PATHS.

1. I understand that the only way for my station to be seen outside of the region, as I am now only transmitting on 145.79, is to put at least one GATE in my UNPROTO path. Is there anything intrinsically <wrong> with wanting

your station to show up on everyone else's map?

2. What is the <proper> sequence for that GATE, and should there be another GATE as well? This assumes that my fixed station would only be transmitting less than once per hour.

3. Since in addition, I have an HF rig, an AEA PK-232MBX TNC and a Mac, is this system capable of being be used on HF?

Please feel free to answer me directly: JayMillard@aol.com, or here on the SIG if you feel others might benefit.

Thank you in advance,
Jay Millard KD1LY
Darien, CT

From rwf@mindspring.com Mon Dec 11 16:47:17 1995
Received: from borg.mindspring.com (root@borg.mindspring.com [204.180.128.14]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id QAA09036 for <aprssig@tapir.org>; Mon, 11 Dec 1995 16:47:13 -0600 (CST)
Received: from rwf.mindspring.com [168.121.44.154] by borg.mindspring.com with SMTP id RAA21221 for <aprssig@tapir.org>; Mon, 11 Dec 1995 17:47:02 -0500
Date: Mon, 11 Dec 1995 17:47:02 -0500
Message-Id: <199512112247.RAA21221@borg.mindspring.com>
X-Sender: rwf@mindspring.com (Unverified)
X-Mailer: Windows Eudora Version 2.1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapir.org
From: rwf <rwf@mindspring.com>
Subject: Re: [APRSSIG:5071] GPS45 & KPC-3 Tracker

Yes, it will. But slowly and will have only a black and white display with *giant* icons.

At 10:07 PM 12/10/95 -0600, KC6HUR wrote:

I have not checked but I believe APRS will run on a 286 with CGA
>video (never felt the need for the latest golly gee whiz computer).
>

From wd5ivd@tapir.org Mon Dec 11 17:15:38 1995
Received: (from wd5ivd@localhost) by sys1.tapir.org (8.7.2/8.7.2) id RAA10243 for aprssig@tapir.org; Mon, 11 Dec 1995 17:15:37 -0600 (CST)
From: Greg Jones <wd5ivd@tapir.org>
Message-Id: <199512112315.RAA10243@sys1.tapir.org>
Subject: Re: [APRSSIG:5080] Tapir Problems
To: aprssig@tapir.org
Date: Mon, 11 Dec 1995 17:15:37 -0600 (CST)
In-Reply-To: <199512111947.NAA04784@sh1.ro.com> from "William Nolle" at Dec 11, 95 01:33:02 pm
X-Mailer: ELM [version 2.4 PL24]

Content-Type: text

Have you tried since you posted this message ?

We had the system down a short time today while we upgraded the memory.
I guess I have to check with Lee about the KE4EER filter we hvae installed
by accident :-) Just seems that you have bad timing.

Cheers - Greg

> There must be a software bug got into the Tapr systm again hi. In an attempt
> to connect to FTP a file i got the message connection refused. O well things
> like that will happen when playing with Bits and Bytes i guess.
>

From quarry@q.continuum.net Mon Dec 11 17:50:53 1995
Received: from q.continuum.net (q.continuum.net [199.0.52.2]) by sys1.tapr.org
(8.7.2/8.7.2) with SMTP id RAA13003 for <aprssig@tapr.org>; Mon, 11 Dec 1995
17:50:51 -0600 (CST)
Received: from [199.0.52.68] (cd-19.continuum.net [199.0.52.68]) by
q.continuum.net (8.6.11/8.6.9) with SMTP id TAA06826 for <aprssig@tapr.org>; Mon,
11 Dec 1995 19:22:19 -0500
Message-Id: <v01530504acf27123f36f@[199.0.52.68]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Mon, 11 Dec 1995 18:50:48 -0500
To: aprssig@tapr.org
From: quarry@q.continuum.net (Chip)
Subject: messages in attachments

I wish those of you who enclose you messages in attachments along with
themselves please don't. It is irritating and a waste of bandwidth and
hard drive space as well as being a nuisance in that I have to manually
chase them down. This seems to be the only list I have that trouble with.

BTW, I can't seem to translate these files, but what little garbage I do
get out of them is that they come from MicroSoft <gag> Mail.

Chip Griffin - President of Thames River Apple Users Group (TRAUG)
BBS System Operator of The Quarry (860-889-6427)
- eMail to: quarry@q.continuum.net (alternate: emmet2@aol.com)
- FidoNet to: Chip@1:320/301.0 or .1
my home page: <http://q.continuum.net/~quarry/>
TRAUG home page: <http://q.continuum.net/~quarry/TRAUG.html>

From mark@tetherless.com Mon Dec 11 17:58:04 1995
Received: from gorgor.pa.tetherless.com (root@gorgor.pa.tetherless.com
[204.94.180.2]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id RAA13177 for
<aprssig@tapr.org>; Mon, 11 Dec 1995 17:57:56 -0600 (CST)
Received: from mark (mark.pa.tetherless.com [204.94.180.151]) by
gorgor.pa.tetherless.com (8.6.11/8.6.11) with SMTP id OAA13416 for

<aprssid@tapr.org>; Mon, 11 Dec 1995 14:18:22 -0800
Date: Mon, 11 Dec 1995 14:18:22 -0800
Message-Id: <199512112218.0AA13416@gorgor.pa.tetherless.com>
X-Sender: mark@gorgor.pa.tetherless.com
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssid@tapr.org
From: mark@tetherless.com (Mark Oppenheim)
Subject: U-II/U-2000 Prices

What/who has the best prices for the U-II and the U-2000? And what are the recommended options? I'll probably be getting one this week - (now that it's raining, of course)

Mark
KD6KQ

From edwardwr@skognet.com Mon Dec 11 18:37:51 1995
Received: from skognet.skognet.com (root@skognet.skognet.com [204.248.60.10]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id SAA15194 for <aprssid@tapr.org>; Mon, 11 Dec 1995 18:37:48 -0600 (CST)
Received: from edwardwr.interaccess.com ([204.248.60.40]) by skognet.skognet.com (8.6.12/8.6.9) with SMTP id MAA11184 for <aprssid@tapr.org>; Mon, 11 Dec 1995 12:52:18 -0600
Date: Mon, 11 Dec 1995 12:52:18 -0600
Message-Id: <199512111852.MAA11184@skognet.skognet.com>
X-Sender: edwardwr@skognet.com (Unverified)
X-Mailer: Windows Eudora Version 1.4.3b4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssid@tapr.org
From: edwardwr@skognet.com (Ed Rogers)
Subject: Re: [APRSSIG:4863] Re: New Address

>Ed,
> I've tried to send you 1/2 dozen messages.
>
> I'd like to thank you for the Grayslake seminar.
>
> I get down to Chicago occasionally for a computer meeting -
>What repeater should I try you on????
>
> I am the Frequency Coordinator for Wisconsin. Do you need to
>contact the FC for IL? I can get you his address. jbruck@heartland.
>bradley.edu (sorry for the line split).
>
> What can I do to help?
>
> Dick Isley is on mcs - sounds like a VERY good deal!
>
>73 de Dave Barrow, N9UNR
>FC-WI WAR-MAAC

>n9unr@execpc.com (preferred) or dbarrow@omnifest.uwm.edu

>

>

Hi Dave,

Got new adress so old stuff must be off in E-mail Land....

Dick has copy of program (Ive done Demo at FRRL) so we need to see him on air.
Im in S'Field a lot now for J-O-B but when on voice tyr WAFAR in Repeter Guide.
How do you like web page:

73

Ed>

From mark@tetherless.com Mon Dec 11 19:08:21 1995

Received: from gorgor.pa.tetherless.com (gorgor.pa.tetherless.com [204.94.180.2])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id TAA16204 for <aprssig@tapir.org>; Mon,
11 Dec 1995 19:07:12 -0600 (CST)

Received: from mark (mark.pa.tetherless.com [204.94.180.151]) by
gorgor.pa.tetherless.com (8.6.11/8.6.11) with SMTP id RAA17035; Mon, 11 Dec 1995
17:06:36 -0800

Date: Mon, 11 Dec 1995 17:06:36 -0800

Message-Id: <199512120106.RAA17035@gorgor.pa.tetherless.com>

X-Sender: mark@gorgor.pa.tetherless.com

X-Mailer: Windows Eudora Version 1.4.4

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

To: aprssig@tapir.org, edwardwr@skognet.com, n9unr@execpc.com

From: mark@tetherless.com (Mark Oppenheim)

Subject: Re: New Address

At 06:51 PM 12/11/95 -0600, Ed Rogers wrote:

>>Ed,

>> I've tried to send you 1/2 dozen messages.

>>

>> I'd like to thank you for the Grayslake seminar.

>>

<SNIP>

>>73 de Dave Barrow, N9UNR

>>FC-WI WAR-MAAC

>>n9unr@execpc.com (preferred) or dbarrow@omnifest.uwm.edu

>>

>>

>Hi Dave,

>

>Got new adress so old stuff must be off in E-mail Land....

>

<SNIP!>

>Ed>

>

Can you guys please take the personal comms off of the sig, and respond
directly to each other?

Thanks! :)

From largriff@Onramp.NET Mon Dec 11 19:18:23 1995
Received: from mailhost.onramp.net (mailhost.onramp.net [199.1.11.3]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id TAA16649 for <aprssig@tapr.org>; Mon, 11
Dec 1995 19:18:20 -0600 (CST)
Received: from largriff (lub12.onramp.net [199.1.172.140]) by mailhost.onramp.net
(8.6.12/8.6.5) with SMTP id TAA28990 for <aprssig@tapr.org>; Mon, 11 Dec 1995
19:18:14 -0600
Message-Id: <199512120118.TAA28990@mailhost.onramp.net>
Comments: Authenticated sender is <largriff@mailhost.onramp.net>
From: "Larry Griffin" <largriff@Onramp.NET>
To: aprssig@tapr.org
Date: Mon, 11 Dec 1995 19:17:14 +0000
Subject: Re: [APRSSIG:5087] U-II/U-2000 Prices
Reply-to: Larry Griffin <largriff@Onramp.NET>
Priority: normal
X-mailer: Pegasus Mail for Windows (v2.23)

On 11 Dec 95 at 18:14, Mark Oppenheim wrote:

> What/who has the best prices for the U-II and the U-2000? And what
> are the recommended options? I'll probably be getting one this week
> - (now that it's raining, of course)

I'm not sure about distributor prices but Peet Bros themselves have a
couple of specials running till the end of December. The first deal
is a price of \$199 for the U-500, regularly \$239. The other deal is
a special upgrade price of \$199 for the U-2000, regularly \$379, for
anyone with the U-II. The upgrade package does not include the wind
sensors; the U-2000 uses the same ones as the U-II.

*** No Attachments Here! ***

Larry Griffin <largriff@onramp.net>

From bruninga@nadn.navy.mil Mon Dec 11 20:04:25 1995
Received: from greatlakes.nadn.navy.mil (greatlakes.nadn.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id UAA18041 for <aprssig@tapr.org>; Mon,
11 Dec 1995 20:04:22 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadn.navy.mil (8.6.12/8.6.12) id
VAA16784; Mon, 11 Dec 1995 21:04:45 -0500
Date: Mon, 11 Dec 1995 21:04:45 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
To: aprssig@tapr.org
cc: amsat-bb@amsat.org
Subject: Meteor Scatter test 14 Dec
Message-ID: <Pine.SUN.3.91.951211204147.16745A-100000@greatlakes>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

The nationwide 2m and 6m packet meteor scatter test will begin at 0000 UTC on 14 Dec, the evening of Wednesday, 13 Dec. All packet stations are invited to participate. For more info see the Dec QST column by Stan Horzepa. We will use 50.62 and 145.79 IF AVAILABLE in your area.

If you are going to use the Meteor Scatter mode in APRS, please note the following caution/addendum: In APRS versions prior to APRS74e, I miss-counted the 4 sections of the US. In the menu I numbered them 1 to 4, but in the code, they are numbered 0 to 3. Use the following table to figure out what you need to do to transmit on the right schedule...

| SECTOR
OF USA | APRS74b
MENU | SECTOR TO
ENTER | SECTOR TO ENTER IF
USING APRS74e |
|------------------|-----------------|--------------------|-------------------------------------|
| NE | 1 | 0 | 1 |
| SE | 2 | 1 | 2 |
| SW | 3 | 2 | 3 |
| NW | 4 | 3 | 4 |

The version 74e will be posted on 12 Dec.

READ APRS\README\METEOR.txt for details...

REMINDERS: EVERYONE MONITOR!

Do NOT transmit unless you have a BEAM and plenty of power
APRS will schedule all transmissions IF your CLOCK is correct
and IF you have selected the right SECTOR.

If you live near the 39th latitude or 96th longitude, then
everyone in your area should agree on which sector to use.

Choose your sector based on where you ARE, but also consider
where your beam is pointed and when your target area is
transmitting.

What this means is, if you are in mississippi, dont beam SE, because
everyone to your SE will be transmitting when you are, so no one will
hear you! Always point to one of the other three quadrants.

From moyers@ibm.net Mon Dec 11 20:40:37 1995

Received: from smtp-gw01.ny.us.ibm.net ([165.87.194.252]) by sys1.tapir.org
(8.7.2/8.7.2) with SMTP id UAA19171 for <aprssig@tapir.org>; Mon, 11 Dec 1995
20:40:34 -0600 (CST)

From: moyers@ibm.net

Received: (from uucp@localhost) by smtp-gw01.ny.us.ibm.net (8.6.9/8.6.9) id
CAA38080 for <aprssig@tapir.org>; Tue, 12 Dec 1995 02:40:31 GMT

Received: from slip166-72-241-82.tn.us.ibm.net(166.72.241.82) by smtp-
gw01.ny.us.ibm.net via smap (V1.3mjr)

id smaJo8Dmb; Tue Dec 12 02:40:03 1995

Received: by slip166-72-241-82.tn.us.ibm.net (IBM OS/2 SENDMAIL VERSION
1.3.14/2.12um) id AA0094; Mon, 11 Dec 95 21:42:06 -0800

Message-Id: <9512120542.AA0094@slip166-72-241-82.tn.us.ibm.net>

Mime-Version: 1.0

Date: Mon, 11 Dec 95 21:36:35 +0000

To: aprssig@tapr.org
Reply-To: moyers@ibm.net
Subject: Re: [APRSSIG:5079] Re: Hooking up U-2000
X-Mailer: Ultimedia Mail/2 Lite, IBM T. J. Watson Research Center
Content-Id: <65_72_1_818735795>
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

> WX.TXT has the following line which leads me to believe that a different
> cable should be used: "The U-2000 is directly RS-232 and needs no pull down
> resistor." However, N3HPR said that documentation (and the salesman, who he
> talked to, and who knew that he was interfacing with APRS) did not indicate
> that the cable was different. There is a cable and software package offered
> with the U-2000. But HPR did not use the software package he bought with the
> U-II so he didn't order the software for the U-2000. I suspect that that
> cable is different. And this is the real problem. He will have to talk to

You suspect correctly. From what I recieved from Peet Bros. the U-2000 is RS-232 on it's com port. They faxed me a pin out for the cables to both a 9 and 25 pin serial connector. They did not call for a pulldown resistor and only indicated a grnd, TX, and RX line connections.

Here is question for BOB, do they use Xon Xoff for flow control?? Or is aprs simply ignoring that comport until it needs the data?

> them and possibly order that cable. He wants to keep the other cable as he
> is planning to run the U-II as a remote unit from his summer cottage.
>
> When we get this all straightened out, we'll report back to the SIG the
> final results.
73

John Moyers * ARS: N4QEA * Internet: moyers@ibm.net
Packet Radio: N4QEA@N4QEA.#METN.TN.USA.NA

From rtucker@crasher2.ttgciitn.com Mon Dec 11 20:49:25 1995
Received: from insosf1.netins.net (ttgciitn@insosf1.netins.net [167.142.225.5]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id UAA19819 for <aprssig@tapr.org>; Mon, 11 Dec 1995 20:49:23 -0600 (CST)
Received: (from ttgciitn@localhost) by insosf1.netins.net id UAA06185 for aprssig@tapr.org; Mon, 11 Dec 1995 20:49:19 -0600
Received: (from rtucker@localhost) by crasher2.ttgciitn.com (8.6.12/8.6.12) id RAA11301 for aprssig@tapr.org; Mon, 11 Dec 1995 17:59:38 -0600
From: Ryan Tucker <rtucker@crasher2.ttgciitn.com>
Message-Id: <199512112359.RAA11301@crasher2.ttgciitn.com>
Subject: Re: [APRSSIG:5077] Re: KC7KEZ Christmas Party on HF APRS, Dec. 10
To: aprssig@tapr.org
Date: Mon, 11 Dec 1995 17:59:33 -0600 (CST)
In-Reply-To:

<c=US%a=rrgroup%p=RRSystemsGroup%l=RRGROUP3951211093425AE005C00@rrgroup3> from
"Willson Flor" at Dec 11, 95 09:42:44 am
X-Mailer: ELM [version 2.4 PL24]
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

Thus spake Willson Flor, splattered hither:

> I don't know anyone from the KC7KEZ club (although I've been to their hom=
> e town - in one of the most beautiful areas of the US, IMNSHO) but I'm pr=
> etty sure they meant 10151.5 KHz, which is in the 30-meter amateur HF ban=
> d.

No it isn't. That's somewhere in the middle of the FM Broadcast Band, isn't
it? ;-)

I think the original poster meant 10151.5 Hz. ;-)

--

| | |
|------------------------|--|
| Ryan Tucker | ttgcitn.com owner |
| rtucker@ttgcitn.com | ann-arbor.mi.us.undernet.org irc admin |
| http://www.ttgcitn.com | netins.net user development group |

From JayMillard@aol.com Mon Dec 11 20:54:38 1995
Received: from emout04.mail.aol.com (emout04.mail.aol.com [198.81.10.12]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id UAA19887 for <aprssig@tapr.org>; Mon, 11
Dec 1995 20:54:34 -0600 (CST)
From: JayMillard@aol.com
Received: by emout04.mail.aol.com (8.6.12/8.6.12) id VAA09097 for
aprssig@tapr.org; Mon, 11 Dec 1995 21:54:02 -0500
Date: Mon, 11 Dec 1995 21:54:02 -0500
Message-ID: <951211215347_70400616@emout04.mail.aol.com>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5091] Meteor Scatter test 14 Dec

Bob Bruninga wrote:

>The nationwide 2m and 6m packet meteor scatter test will begin at 0000
>UTC on 14 Dec, the evening of Wednesday, 13 Dec. All packet stations are
>invited to participate.

Bob, does this mean that any APRS station normally operating on 145.79 but
not participating in the Meteor Scatter test should suspend operations as of
0000 UTC on 14 Dec 95? If so, for how long?
Jay Millard KD1LY

From n2czf@gate.net Mon Dec 11 21:29:31 1995
Received: from osceola.gate.net (osceola.gate.net [199.227.0.18]) by sys1.tapr.org
(8.7.2/8.7.2) with SMTP id VAA21161 for <aprssig@tapr.org>; Mon, 11 Dec 1995
21:29:27 -0600 (CST)
From: n2czf@gate.net
Received: from 199.227.125.171 (wpbf12-43.gate.net [199.227.125.171]) by

osceola.gate.net (8.6.12/8.6.9) with SMTP id WAA33286 for <aprssig@tapr.org>; Mon,
11 Dec 1995 22:30:15 -0500
Date: Mon, 11 Dec 1995 22:30:15 -0500
Message-Id: <199512120330.WAA33286@osceola.gate.net>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Subject: Re: [APRSSIG:5086] messages in attachments
To: aprssig@tapr.org
In-Reply-To: <v01530504acf27123f36f@[199.0.52.68]>
X-Mailer: SPRY Mail Version: 04.00.06.17

Just to let everyone know that may not already the attachments ARE NOT done intentionally. I started the subject after my system crashed every time I read or even attempted to delete the message (without even reading it!). The message was posted to see if it was just me or others had the problem.

As has been STATED BEFORE the files are created by Microsoft Mail, not by the sender but by the program. The few users that do have the program are now aware of the situation and I know of at least 1 user that is no longer running the program due to the problem.

Again the attachments are not intentional, it is a problem that Microsoft has created and with more and more users of Win95' trying the program I am sure we will see it again as we gain new members on the sig. if a new sig member is not aware of the problem just e-mail him/her and let them know of the situation, they are probably clueless that this is happening.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

From rtucker@crasher2.ttgciitn.com Mon Dec 11 22:22:24 1995
Received: from insosf1.netins.net (ttgciitn@insosf1.netins.net [167.142.225.5]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id WAA23207 for <aprssig@tapr.org>; Mon, 11 Dec 1995 22:22:21 -0600 (CST)
Received: (from ttgciitn@localhost) by insosf1.netins.net id WAA06733 for aprssig@tapr.org; Mon, 11 Dec 1995 22:22:19 -0600
Received: (from rtucker@localhost) by crasher2.ttgciitn.com (8.6.12/8.6.12) id VAA12082 for aprssig@tapr.org; Mon, 11 Dec 1995 21:25:42 -0600
From: Ryan Tucker <rtucker@crasher2.ttgciitn.com>
Message-Id: <199512120325.VAA12082@crasher2.ttgciitn.com>
Subject: Re: [APRSSIG:5093] Re: KC7KEZ Christmas Party on HF APRS, Dec. 10
To: aprssig@tapr.org
Date: Mon, 11 Dec 1995 21:25:38 -0600 (CST)
In-Reply-To: <199512112359.RAA11301@crasher2.ttgciitn.com> from "Ryan Tucker" at Dec 11, 95 08:59:41 pm
X-Mailer: ELM [version 2.4 PL24]
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

Thus spake Ryan Tucker, splattered hither:

> Thus spake Willson Flor, splattered hither:

> > I don't know anyone from the KC7KEZ club (although I've been to their home town - in one of the most beautiful areas of the US, IMNSHO) but I'm pretty sure they meant 10151.5 KHz, which is in the 30-meter amateur HF band.
> > d.

>

> No it isn't. That's somewhere in the middle of the FM Broadcast Band, isn't it? ;-)

>

> I think the original poster meant 10151.5 Hz. ;-)

DOH!! I just thought about it.

I need more sleep.

--

| | |
|------------------------|--|
| Ryan Tucker | ttgcitn.com owner |
| rtucker@ttgcitn.com | ann-arbor.mi.us.undernet.org irc admin |
| http://www.ttgcitn.com | netins.net user development group |

From bruninga@nadm.navy.mil Mon Dec 11 23:12:32 1995

Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id XAA24631 for <aprssig@tapr.org>; Mon,
11 Dec 1995 23:12:30 -0600 (CST)

Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
AAA17252; Tue, 12 Dec 1995 00:12:53 -0500

Date: Tue, 12 Dec 1995 00:12:53 -0500 (EST)

From: Bob Bruninga <bruninga@nadm.navy.mil>

To: aprssig@tapr.org

Subject: Re: [APRSSIG:5092] Re: Hooking up U-2000

In-Reply-To: <9512120542.AA0094@slip166-72-241-82.tn.us.ibm.net>

Message-ID: <Pine.SUN.3.91.951212001138.17246A-100000@greatlakes>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 11 Dec 1995 moyers@ibm.net wrote:

>

> Here is question for BOB, do they use Xon Xoff for flow control??

> Or is aprs simply

> ignoring that comport until it needs the data?

APR REPLY: Ignores it. Then clears buffer, and takes the first sample after that...

From bruninga@nadm.navy.mil Mon Dec 11 23:24:52 1995

Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id XAA25088 for <aprssig@tapr.org>; Mon,
11 Dec 1995 23:24:50 -0600 (CST)

Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
AAA17268; Tue, 12 Dec 1995 00:25:13 -0500

Date: Tue, 12 Dec 1995 00:25:12 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5094] Re: Meteor Scatter test 14 Dec
In-Reply-To: <951211215347_70400616@emout04.mail.aol.com>
Message-ID: <Pine.SUN.3.91.951212001530.17246B-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 11 Dec 1995 JayMillard@aol.com wrote:

>

> Bob, does this mean that any APRS station normally operating on 145.79 but
> not participating in the Meteor Scatter test should suspend operations as of
> 0000 UTC on 14 Dec 95? If so, for how long?

APR REPLY: 3 Meteor Scatter packets over 1000 miles distant were received by at least 3 different stations running omni antennas. One was in an attic! Although rare, you may as well LISTEN. The fewer packets you send for those 24 hours, the more all your neighbors have a chance of hearing a DX packet.

RECOMMENDATION FOR ALL HIGHPOWER STATIONS AND STNS WITH BEAMS:

Set MScatt mode and aim your beam in a different direction than the other aligators in your area are aiming. Set a high duty cycle

RECOMMENDATION FOR ALL OTHER APRS stations:

Operate MScatt mode but at a low duty cycle

By being in MScatt mode, you will only copy stations heard DIRECT.

Even if you dont see any MScattt packets, you may be surprised at how many stations you hear direct!

From dbarrow@omnifest.uwm.edu Tue Dec 12 03:12:36 1995
Received: from uwm.edu (uwm.edu [129.89.6.2]) by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id DAA06695 for <aprssig@tapr.org>; Tue, 12 Dec 1995 03:12:34 -0600 (CST)
Received: from omnifest.uwm.edu (omnifest.uwm.edu [129.89.70.58]) by uwm.edu (8.7.1/8.6.9) with SMTP id DAA26385 for <aprssig@tapr.org>; Tue, 12 Dec 1995 03:12:32 -0600 (CST)
Received: by omnifest.uwm.edu; (5.65/1.1.8.2/17Sep94-0940PM)
id AA09413; Tue, 12 Dec 1995 03:12:31 -0600
Date: Tue, 12 Dec 1995 03:12:31 -0600
From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Message-Id: <9512120912.AA09413@omnifest.uwm.edu>
To: aprssig@tapr.org
Subject: Microsoft Attitude

gerry@cs.tamu.edu (Gerald J Creager) said:

"Microsoft is aware of it, and has told folks I work with who tried to get a fix that it would not be a problem if everyone was running Windoze 97.

The world has not QUITE gotten to that level of depravity. Some of us are smart enough to get all of the features in 1985 on our Macs.

If Bill Gates wants me to debug his code - he can pay my standard rates. I might think about Win95 in 97 or 98 - ought to be debugged by then.

Dave
Barrow

From ke4eer@ro.com Tue Dec 12 04:57:07 1995
Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id EAA09222 for <aprssig@tapir.org>; Tue, 12 Dec 1995 04:57:05 -0600 (CST)
Received: from (ts1p5.ro.com [205.216.92.25]) by sh1.ro.com (8.6.9/8.6.9) with SMTP id GAA00281 for <aprssig@tapir.org>; Tue, 12 Dec 1995 06:04:45 -0600
Message-Id: <199512121204.GAA00281@sh1.ro.com>
X-Mailer: InternetWorks Mail and News 1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Tue, 12 Dec 1995 04:56:55
From: ke4eer@ro.com (William Nolle)
To: aprssig@tapir.org
Subject: Grabber

For those that have been asking me for a copy of the screen grabber i have uploaded the file to tapir under the file name GRAB397.ZIP. I didn't want to do this at first since it really isn't related to APRS (Well it almost is). It does a

great job of taking a picture of your APRS screen and outputs the into an executable (EXE) file that's great for club demos and APRS gatherings, it also has software included to covert the EXE file into GIF or PCX files. Several APRS users have asked me to make it available so they can take some APRS screen pictures and use the GIF files to place them on their Web home page. I have also included a txt file so APRS users will know what the file is all about and so they won't mistake it for a new version of Bob's or Keith's APRS software Hi Hi.

Bill KE4EER
ke4eer@ro.com

From pmm@safn2.saf.com Tue Dec 12 07:39:55 1995
Received: from relay5.UU.NET (relay5.UU.NET [192.48.96.15]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id HAA13651 for <aprssig@tapir.org>; Tue, 12 Dec 1995 07:39:52 -0600 (CST)
Received: from uucp5.UU.NET by relay5.UU.NET with SMTP id QQztuk28224; Tue, 12 Dec 1995 08:39:50 -0500 (EST)
Received: from safn2.UUCP by uucp5.UU.NET with UUCP/RMAIL ; Tue, 12 Dec 1995 08:39:50 -0500
Received: from safn8.saf.com by safn2.saf.com id aa07140; 12 Dec 95 8:22 EST
From: Penn M McClatchey <pmm@safn2.saf.com>
X-Mailer: SCO System V Mail (version 3.2)
To: aprssig@tapir.org
Subject: Re: [APRSSIG:5098] Re: Meteor Scatter test 14 Dec
Date: Tue, 12 Dec 95 8:22:13 EST
Message-ID: <9512120822.aa14701@safn8.saf.com>

>
>Sender: aprssig@tapr.org
>Precedence: bulk
>From: Bob Bruninga <bruninga@nadn.navy.mil>
>
>On Mon, 11 Dec 1995 JayMillard@aol.com wrote:
>>
>
>RECOMMENDATION FOR ALL HIGHPOWER STATIONS AND STNS WITH BEAMS:
> Set MScatt mode and aim your beam in a different direction than
> the other aligators in your area are aiming. Set a high duty cycle

I've been using APRS for about two weeks. Really cool. I run up to 40 watts into a 13 el (vertical) yagi about 40 ft above the surrounding terrain. I am up on a ridge. Am I considered a highpowered station with a beam? And if so, hey Ralph, (N4NEQ): I'm in Atlanta, which way should I beam?

Another question: at what % of the channel load is chatting no longer considered appropriate? Or is chatting every appropriate? Friday evening, I did not expect it when a station wanted to chat using the tailing comments.

Thanks and 73 de WB4DPT

Penn M. McClatchey (Southern Aluminum Finishing Co, Atlanta, GA, USA)
Architectural Aluminum. Custom Fabrication. Paint, Powder Coating, Anodizing.
pmm@saf.com Amateur Radio WB4DPT Voice: 404-355-1560,ext231

From Paul_Moller@csg.mot.com Tue Dec 12 08:27:07 1995
Received: from motgate.mot.com (motgate.mot.com [129.188.136.100]) by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id IAA15392 for <aprssig@tapr.org>; Tue, 12 Dec 1995 08:27:04 -0600 (CST)
Received: from pobox.mot.com (pobox.mot.com [129.188.137.100]) by motgate.mot.com (8.7.1/8.6.10/MOT-3.8) with ESMTP id IAA03370 for <aprssig@tapr.org>; Tue, 12 Dec 1995 08:26:26 -0600 (CST)
Received: from OAMPC10.csg.mot.com (OAMPC10.csg.mot.com [144.188.134.33]) by pobox.mot.com (8.7.1/8.6.10/MOT-3.8) with SMTP id IAA29759 for <aprssig@tapr.org>; Tue, 12 Dec 1995 08:26:25 -0600 (CST)
Received: from PAULM_PC (PaulM_PC.csg.mot.com [144.188.36.8]) by OAMPC10.csg.mot.com (8.6.8.1/8.6.6) with SMTP id IAA22580 for <aprssig@tapr.org>; Tue, 12 Dec 1995 08:33:45 -0600
Date: Tue, 12 Dec 1995 08:33:45 -0600
Message-Id: <199512121433.IAA22580@OAMPC10.csg.mot.com>
X-Sender: mollpj@144.188.134.33
X-Mailer: Windows Eudora Pro Version 2.1.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: Paul Moller <Paul_Moller@csg.mot.com>
Subject: U-II connections

>You suspect correctly. From what I received from Peet Bros. the U-2000 is RS-232 on it's
>com port. They faxed me a pin out for the cables to both a 9 and 25 pin serial
>connector. They did not call for a pulldown resistor and only indicated a grnd, TX, and
>RX line connections.
>

I have an automatic rain gauge made by a company other than Peet that I would like to interface to the U-II (or U-2000 if Santa Claus is generous). Does anyone have a schematic for the Peet rain gauge interface for comparison?

Paul, WD9ABE
Maybe closer to GLNTC than anybody (5 miles).

From dwetzel@acs.uswest.com
From: aprssig@tapr.org at Internet-Mail
From: Mark Farver Tue Dec 12 09:00:38 1995
Received: from uswat.advtech.uswest.com (uswat.advtech.uswest.com [130.13.16.1])
by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id JAA16812 for <aprssig@tapr.org>; Tue,
12 Dec 1995 09:00:36 -0600 (CST)
From: dwetzel@acs.uswest.com
Received: from easthub ([151.117.26.86]) by uswat.advtech.uswest.com (8.7.1/8.7.1)
with SMTP id IAA04772 for <aprssig@tapr.org>; Tue, 12 Dec 1995 08:00:27 -0700
(MST)
Received: by easthub.mnet.uswest.com (M-Net Hub.950111)
Received: from acmspgw1 by acs.uswest.com (5.x/SMI-SVR4)
id AB25986; Tue, 12 Dec 1995 09:00:25 -0600
Received: from ccMail by acmspgw1.mnet.uswest.com
(IMA Internet Exchange 1.04b beta) id 0cd8f300; Tue, 12 Dec 95 08:18:24 -0600
Mime-Version: 1.0
Date: Tue, 12 Dec 1995 07:48:14 -0600
Message-Id: <0cd8f300@acmspgw1.mnet.uswest.com>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5077] Re: KC7KEZ Christmas Party on HF APRS, De
Content-Type: multipart/mixed; boundary="IMA.Boundary.409777818"

This is a Mime message, which your current mail reader may not understand. Parts of the message will appear as text. To process the remainder, you will need to use a Mime compatible mail reader. Contact your vendor for details.

--IMA.Boundary.409777818
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Description: cc:Mail note part

I tried to get a coordination for 10515.5 Mhz, but there was already manned UFO activity on that 10153.5, and couldn't get it moved!

kc7co
;-)

Subject: [APRSSIG:5077] Re: KC7KEZ Christmas Party on HF APRS, Dec. 1
From: aprssig@tapr.org at Internet-Mail
Date: 12/11/95 9:42

You wrote:

From: Mark Farver (KB9JMZ) [SMTP:farver@uwplatt.edu]
Sent: Sunday, December 10, 1995 12:56PM
To: aprssig@tapr.org
Subject: [APRSSIG:5058] Re: KC7KEZ Christmas Party on HF APRS, Dec. 10

. At 12:36 PM 12/9/95 -0600, you wrote:
. >The Jefferson County Amateur Radio Club, KC7KEZ, will be on the air from
. >Port Townsend, WA demonstrating HF APRS on 10151.5MHz for its annual
. >Christmas party, Sunday Dec. 10.
.
. I may be a newbie... but isn't 10151.5 _MHz_ X-band microwave, not HF?
.

I don't know anyone from the KC7KEZ club (although I've been to their home town
-
in one of the most beautiful areas of the US, IMNSHO) but I'm pretty sure they
m
eant 10151.5 KHz, which is in the 30-meter amateur HF band.

. Mark
. KB9JMZ

73 de KB9JTT, willf@rrgroup.com
About 7 miles from the Great Lakes, but a little farther from Greatlakes, and
far
ther yet from Port Townsend, Washington.

--IMA.Boundary.409777818
Content-Type: application/octet-stream; name="Mime9.raw"
Content-Transfer-Encoding: base64
Content-Description: Unknown data type

eJ8+IhwPAQaQCAAEAAAAAAAAABAAEAAQeQBGAIAAAAA5AQAAAAAADoAAEFgAMADgAAAMsHDAAL
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AjAiify0LUwB1bmRheSwgREsFkBPgYiThMTAroDEIOtk1LEAy0jU2zFBNJy8hTVRvKW8ji8Zh
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WMBJYHUfQAQAbiYnQhFPFCBfT3FfIFAgWC1iAHBkv8Bp2wUATLBhJNAroG4bwD1h/j8yXT/U
Vm9VyRnvGvVexe1XsGQCIFlxa1uwB+AAcN9DsFhgSkNJwzfVY0hRJQCnB0BJ0AhgZ2hhECck
0P9JYQnwScBIIEnRSiFj8AeAP2ThTMAfge/gA6BiIm9mb0nDBGATwElhYVkBpB1XwMgCsBn
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EBulhwgAKyolF7XB

--IMA.Boundary.409777818--

From kirk@neptune.gsfc.nasa.gov Tue Dec 12 09:54:11 1995

Received: from gsfc.nasa.gov (tinker-toy.gsfc.nasa.gov [128.183.50.19]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id JAA18879 for <aprssig@tapr.org>; Tue, 12
Dec 1995 09:54:08 -0600 (CST)

Received: from neptune.gsfc.nasa.gov by gsfc.nasa.gov (5.65/Ultrix3.0-C)
id AA02096; Tue, 12 Dec 95 10:53:59 -0500

Received: from isobar by neptune.gsfc.nasa.gov via SMTP

(950911.SGI.8.6.12.PATCH825/920502.SGI)for <aprssig@tapr.org> id JAA19079; Tue, 12
Dec 1995 09:35:11 -0500

Message-Id: <199512121435.JAA19079@neptune.gsfc.nasa.gov>

X-Sender: kirk@neptune

X-Mailer: Windows Eudora Pro Version 2.1.2

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Date: Tue, 12 Dec 1995 09:30:32 -0500

To: aprssig@tapr.org

From: Robert Kirk <kirk@neptune.gsfc.nasa.gov>

Subject: HSP Mode Screen Lock-up

I recently tried operating mobile in the HSP mode (Motorola
Traxar+ GPS, Pacomm Handipacket w/their HSP cable,
IBM750C laptop) but kept getting screen lockups after a few
minutes. Plenty of CPU speed & memory. The screen will freeze
for long periods, interrupted with brief updates. In the "V" mode you can
see that the data from the GPS & rcvr keep coming in, so it's not a
program crash, but seemingly, the computer keeps too busy to update the
screen except very infrequently. Tried playing around with the Posrate
and frequency of updates from the GPS (Can only vary from 1 to 9 sec),
but no luck.

Has anyone had this problem and/or a solution? I had been operating standalone or as a tracker without any trouble.

Bob Kirk
N30ZB

kirk@neptune.gsfc.nasa.gov

From mark@y100.com Tue Dec 12 09:54:40 1995
Received: from relay.interserv.com (uhura.interserv.net [165.121.2.67]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id JAA18928 for <aprssig@tapir.org>; Tue, 12 Dec 1995 09:54:37 -0600 (CST)
From: mark@y100.com
Received: from 204.213.111.100 (y100admin.emanon.net) by relay.interserv.com with SMTP id AA10780
(5.67b/IDA-1.5 for aprssig@tapir.org); Tue, 12 Dec 1995 07:54:20 -0800
Date: Tue, 12 Dec 1995 07:54:20 -0800
Message-Id: <199512121554.AA10780@relay.interserv.com>
Mime-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Subject: Prices for Garmin 45
To: aprssig@tapir.org
X-Mailer: SPRY Mail Version: 04.00.06.17

I'm shopping around for a Garmin GPS-45, but it's been a while since I saw "good" prices posted here. If you purchased one recently, I would really appreciate any current pricing information (including phone number) which I will forward to Santa Claus.

>From the comments I've seen here, the Garmin 45 seems to be the best buy, but if you have any suggestions for an similar-cost alternative with more/better features, I'm interested in your opinion. I need a unit with NMEA output, but it doesn't necessarily have to display high speeds.

Thanks!

Mark, N2CHV

From mark@y100.com Tue Dec 12 09:54:43 1995
Received: from relay.interserv.com (uhura.interserv.net [165.121.2.67]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id JAA18935 for <aprssig@tapir.org>; Tue, 12 Dec 1995 09:54:40 -0600 (CST)
From: mark@y100.com
Received: from 204.213.111.100 (y100admin.emanon.net) by relay.interserv.com with SMTP id AA10784
(5.67b/IDA-1.5 for aprssig@tapir.org); Tue, 12 Dec 1995 07:54:24 -0800
Date: Tue, 12 Dec 1995 07:54:24 -0800
Message-Id: <199512121554.AA10784@relay.interserv.com>
Mime-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Subject: Re: [APRSSIG:5087] U-II/U-2000 Prices

To: aprssig@tapr.org
X-Mailer: SPRY Mail Version: 04.00.06.17

On Mon, 11 Dec 1995, mark@tetherless.com (Mark Oppenheim) wrote:
>What/who has the best prices for the U-II and the U-2000? And what are the
>recommended options? I'll probably be getting one this week - (now that
>it's raining, of course)
>
>Mark
>KD6KQ
>

If you're considering the U-2000 system, you should order the U-II system directly from Peet Brothers for \$179 -- with the U-2000 display for an extra \$199. (Special "upgrade" price through the end of December.) The total cost for this package is \$378, a buck CHEAPER than the U-2000 system sells for BY ITSELF.

This will give you the ability to use the two displays in different locations within a hundred feet or so -- a nice feature if you want to use one in the shack and the other in the house. (You will need to purchase an extension cable or make your own using eight-pin modular connectors.) The U-II display does not provide as many memory registers as the 2000, and cannot display barometer or humidity/dewpoint, but it will show temperature, wind, and rainfall data.

Peet Brother tells me the wind speed/direction sensor shipped with the U-II system is totally compatible with the U-2000 -- the only difference is the color of the Lexan plastic.

Mark, N2CHV

From James_Pauling@csg.mot.com Tue Dec 12 10:00:33 1995
Received: from motgate.mot.com (motgate.mot.com [129.188.136.100]) by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id KAA19078 for <aprssig@tapr.org>; Tue, 12 Dec 1995 10:00:30 -0600 (CST)
Received: from pobox.mot.com (pobox.mot.com [129.188.137.100]) by motgate.mot.com (8.7.1/8.6.10/MOT-3.8) with ESMTP id JAA27334 for <aprssig@tapr.org>; Tue, 12 Dec 1995 09:59:57 -0600 (CST)
Received: from OAMPC10.csg.mot.com (OAMPC10.csg.mot.com [144.188.134.33]) by pobox.mot.com (8.7.1/8.6.10/MOT-3.8) with SMTP id JAA28206 for <aprssig@tapr.org>; Tue, 12 Dec 1995 09:59:55 -0600 (CST)
Received: from JIMP_PC (JimP_PC.csg.mot.com [144.188.36.12]) by OAMPC10.csg.mot.com (8.6.8.1/8.6.6) with SMTP id KAA24372 for <aprssig@tapr.org>; Tue, 12 Dec 1995 10:07:14 -0600
Date: Tue, 12 Dec 1995 10:07:14 -0600
Message-Id: <199512121607.KAA24372@OAMPC10.csg.mot.com>
X-Sender: paulje@144.188.134.33 (Unverified)
X-Mailer: Windows Eudora Pro Version 2.1.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: Jim Pauling <James_Pauling@csg.mot.com>

Subject: 2M Maps???

In mapfix.txt reference is made to a program written by KB4XF which extracts data from the USGS CD-ROM. Also a program written by W4NMK which does the same thing but with files downloaded from the USGS.

I will be going tracker mode from IL through WI to the UP this weekend and wanted to make some 32 mile maps of my route.

It seems that the 2M DLG files are not available anymore only the SDTS format. Is this true or is there another source?

Thanks for the Help.

Jim, KB9LIN
jim_pauling@csg.mot.com

From dbarrow@omnifest.uwm.edu Tue Dec 12 10:11:04 1995
Received: from uwm.edu (uwm.edu [129.89.6.2]) by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id KAA19657 for <aprssig@tapr.org>; Tue, 12 Dec 1995 10:11:00 -0600 (CST)
Received: from omnifest.uwm.edu (omnifest.uwm.edu [129.89.70.58]) by uwm.edu (8.7.1/8.6.9) with SMTP id KAA24679 for <aprssig@tapr.org>; Tue, 12 Dec 1995 10:10:58 -0600 (CST)
Received: by omnifest.uwm.edu; (5.65/1.1.8.2/17Sep94-0940PM)
id AA22104; Tue, 12 Dec 1995 10:10:57 -0600
Date: Tue, 12 Dec 1995 10:10:57 -0600
From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Message-Id: <9512121610.AA22104@omnifest.uwm.edu>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5078] Re: 145.820??

WAR coordinating packet??

WAR is not coordinating packet. However for lack of anyone else doing the coordination we may have to - by default.

I was under the impression that digital modes were coordinated in WI by WAPR (Wisconsin Amateur Packet Radio) via Steve KE9LZ.

That is my understanding - that he is supposed to do that - but - as far as I can tell he hasn't.

As far as specific coordinations of 145.79, I know not.

I thought that your original message specifically stated that YOU had gone to a great effort to get that coordinated.

Personally - I think that the frequency ought to be coordinated nationwide. I have submitted the issue to the national coordinator's remailer and urged their speedy action. The ARRL is even involved <g>!

I (as a former cop and judge) resent rules and regulations as much, or more than the next person - but unless we do a little spectrum

management we are going to lose the frequencies - the FCC will decide that we are more trouble than we are worth.

Pray tell - what is all that "stuff" at the end of your message?

Merry Christmas!

Dave Barrow, N9UNR
FC-WI WAR-MACC
n9unr@execpc.com (PREFERRED)

From bruninga@nadm.navy.mil Tue Dec 12 11:35:32 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id LAA23232 for <aprssig@tapir.org>; Tue,
12 Dec 1995 11:35:29 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
MAA25717; Tue, 12 Dec 1995 12:35:49 -0500
Date: Tue, 12 Dec 1995 12:35:49 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapir.org
Subject: MKMAPHK2.EXE Upgrade
Message-ID: <Pine.SUN.3.91.951212123218.25667A-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Just talked to Jack Cavanaugh and he said the only difference in the
UNPLOCKED map files from the interenet and the BLOCKED ones off the CD,
are of course the CR-LF at the end of each 80 character block. But since
he reads the files as RANDOM, the only difference is to change the OPEN
FILE statement... LEN=82 to ... LEN=80 and it will work fine off of
UNBLOCKED files. I added a USER PROMPT allowing you to specify BLOCKED
or UNBLOCKED and re-compiled the program as MKMAPHK2.EXE and it is
included in APRS74E. The MKMAPHK2.bas source code is only in the
UPGRADE file 72cto74e.zip...

Hope this helps...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

From bruninga@nadm.navy.mil Tue Dec 12 11:43:49 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id LAA23313 for <aprssig@tapir.org>; Tue,
12 Dec 1995 11:43:47 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
MAA25908; Tue, 12 Dec 1995 12:44:09 -0500
Date: Tue, 12 Dec 1995 12:44:09 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapir.org
Subject: Ver APRS74e.zip
Message-ID: <Pine.SUN.3.91.951212123557.25667B-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Latest APRS and one upgrade file are now posted.

- * Fixes Meteor Scatter SECTORS to 1 thru 4 vice 0 through 3.
- * May do band switching with PK-900/2232... (and of course, maybe not)
- * New <> keys will hook-step through all stations on current SCREEN.
This makes it easy to zoom into an area, and hook everyone in turn to see what is happenin'. Actually, its the "," and "." keys so that you dont have to hold down the shift key while pressing the < and > key...
- * Fixed the cursor display in MAPFIX18 to avoid truncation errors at small ranges near even LAT/LONG lines.
- * F3/F4 work better for changing number of displayed labels. Actually SPACE BAR restores to normal labels. F3 brings up more. F4 should bring up less, but DONT HIT SPACE, hit HOME instead to re-draw without defaulting back to standard labels..
- * Fixed the wrap-around which screwed up the HOOK-DISPLAY in 74c.
- * Version 74d was a BETA test of some of these and was not inteneded for general distro.

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

From bruninga@nadn.navy.mil Tue Dec 12 14:08:51 1995

Received: from greatlakes.nadn.navy.mil (greatlakes.nadn.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id OAA27067 for <aprssig@tapr.org>; Tue,
12 Dec 1995 14:08:47 -0600 (CST)

Received: (from bruninga@localhost) by greatlakes.nadn.navy.mil (8.6.12/8.6.12) id
NAA27037; Tue, 12 Dec 1995 13:17:26 -0500

Date: Tue, 12 Dec 1995 13:17:25 -0500 (EST)

From: Bob Bruninga <bruninga@nadn.navy.mil>

To: aprssig@tapr.org

Subject: APRS74e.zip and PICO TNC

In-Reply-To: <9512121801.AA06035@gvgadg.gvg.tek.com>

Message-ID: <Pine.SUN.3.91.951212131329.25667K-100000@greatlakes>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 12 Dec 1995, Randy Hall wrote:

> Does APRS74e.zip address the picopacket issues?

APR REPLY: Yes, I forgot to say, that 74e WILL automatically request
a GPS posit from the new-dual-serial-port-gps version of the PICO-TNC.

This means that you just plug the GPS into the PICO-TNC and plug the
TNC into APRS, aand you don't need the HSP SWITCH! All you do is
configure APRS for HSP, but when you first started APRS, you told it you
had a PICO. APRS will then know to request the GPS posit over the
serial port from the TNC...

From cdavidso@hemisphere.neocomm.net Tue Dec 12 15:09:07 1995

Received: from hemisphere.neocomm.net (root@hemisphere.neocomm.net
[205.160.234.1]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id PAA29195 for
<aprssig@tapr.org>; Tue, 12 Dec 1995 15:09:01 -0600 (CST)

Received: from Axton (ppp10.neocomm.net [205.160.234.26]) by

hemisphere.neocomm.net (8.6.11/8.6.9) with SMTP id QAA19891 for
<aprssig@tapr.org>; Tue, 12 Dec 1995 16:09:09 -0500
Message-Id: <199512122109.QAA19891@hemisphere.neocomm.net>
Comments: Authenticated sender is <cdavidso@neocomm.net>
From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
To: aprssig@tapr.org
Date: Tue, 12 Dec 1995 16:07:38 +0000
Subject: Virginia maps
Reply-to: cdavidso@hemisphere.neocomm.net
Priority: normal
X-mailer: Pegasus Mail for Windows (v2.01)

Hello

I have made 40+ maps of Virginia at the 8.4 mile range. The centers of the maps are horizontally 20 minuets apart and 15 minuets verticle separation. I found this grid size to give a good continuous map at the 8 mile or less range. I am missing some maps from my grid for some reason I cannot generate the missing maps from my Internet data? I have not begun to label this maps yet and no city locations are included. Most of these maps are small in size 1500 points, so they load fast on my slow notebook.

If anyone is interested in the data I have at present I will be glad to zip and upload the maps and maplist.va, to the tapr ftp site. I had hoped to wait until I had a completed set of 8.4 miles of my state but who knows when that will be!!

Let me know if you are interested, but
PLEASE DO NOT INCLUDE A COPY OF THIS LETTER WITH YOUR REPLY
There is entirley to much repitition here, a simple phrase in the subject line is usually (but not always) enough to let folks know the contents of your email. Gosh I see 20 copys of some letters that get heavy replies,,, thats 20 copies recent to 200 users. This is a great source of information and I really enjoy reading all the new info and discussions of old topics. But I am not interested in personel mail to Elmer@someplace.USA send it to Elmer not the Aprssig. Wow all that flaming I have ben ready is affecting me now....he he

cdavidso@neocomm.net
<http://www.neocomm.net/~cdavidso/>
Charles W. Davidson
Route 1, Box 139-H
Axton, VA 24540-9626
WB4PAN@WB4Q0J.VA.USA.NOAM

From cdavidso@hemisphere.neocomm.net Tue Dec 12 15:12:49 1995
Received: from hemisphere.neocomm.net (root@hemisphere.neocomm.net [205.160.234.1]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id PAA29282 for <aprssig@tapr.org>; Tue, 12 Dec 1995 15:12:43 -0600 (CST)
Received: from Axton (ppp10.neocomm.net [205.160.234.26]) by hemisphere.neocomm.net (8.6.11/8.6.9) with SMTP id QAA19995 for <aprssig@tapr.org>; Tue, 12 Dec 1995 16:12:50 -0500

Message-Id: <199512122112.QAA19995@hemisphere.neocomm.net>
Comments: Authenticated sender is <cdavidso@neocomm.net>
From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
To: aprssig@tapr.org
Date: Tue, 12 Dec 1995 16:11:19 +0000
Subject: Re: [APRSSIG:5104] HSP Mode Screen Lock-up
Reply-to: cdavidso@hemisphere.neocomm.net
Priority: normal
X-mailer: Pegasus Mail for Windows (v2.01)

My HSP problems where caused by my laptop power supply. Voltage reached the serial port sheild and prevented the HSP fro doing its job. Works ok on internal battery..

cdavidso@neocomm.net
<http://www.neocomm.net/~cdavidso/>
Charles W. Davidson
Route 1, Box 139-H
Axton, VA 24540-9626
WB4PAN@WB4Q0J.VA.USA.NOAM

From alanwc7r@primenet.com Tue Dec 12 15:37:14 1995
Received: from mailhost1.primenet.com (mailhost1.primenet.com [198.68.32.51]) by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id PAA01524 for <aprssig@tapr.org>; Tue, 12 Dec 1995 15:37:12 -0600 (CST)
Received: from usr4.primenet.com (root@usr4.primenet.com [198.68.32.14]) by mailhost1.primenet.com (8.7.1/8.7.1) with ESMTP id OAA05915 for <aprssig@tapr.org>; Tue, 12 Dec 1995 14:37:06 -0700 (MST)
Received: from Primenet.primenet.com (ip204.prc.primenet.com [204.212.56.204]) by usr4.primenet.com (8.7.1/8.7.1) with SMTP id OAA25768; Tue, 12 Dec 1995 14:37:04 -0700 (MST)
Message-Id: <199512122137.OAA25768@usr4.primenet.com>
X-Sender: alanwc7r@mailhost.primenet.com
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Tue, 12 Dec 1995 14:37:17 -0700
To: aprssig@tapr.org, aprssig@tapr.org
From: alanwc7r@primenet.com (Alan Unangst)
Subject: Re: [APRSSIG:5112] Virginia maps

I would be very interested, especially the areas around Alexandria and Woodbridge!

73, Alan, WC7R alanwc7r@primenet.com

At 03:14 PM 12/12/95 -0600, Charles W. Davidson wrote:

>Hello

>

> I have made 40+ maps of Virginia at the 8.4 mile range. The
>centers of the maps are horizontally 20 minuets apart and 15 minuets
>verticle separation. I found this grid size to give a good continuous

>map at the 8 mile or less range. I am missing some maps from my grid
 >for some reason I cannot generate the missing maps from my Internet
 >data? I have not begun to label this maps yet and no city locations
 >are included. Most of these maps are small in size 1500 points, so
 >they load fast on my slow notebook.
 > If anyone is interested in the data I have at present I will be
 >glad to zip and upload the maps and maplist.va, to the tapr ftp site.
 >I had hoped to wait until I had a completed set of 8.4 miles of my
 >state but who knows when that will be!!
 >
 >
 > Let me know if you are interested, but
 >PLEASE DO NOT INCLUDE A COPY OF THIS LETTER WITH YOUR REPLY
 >There is entirley to much repitition here, a simple phrase in the
 >subject line is usually (but not always) enough to let folks know the
 >contents of your email. Gosh I see 20 copys of some letters that get
 >heavy replies,,, thats 20 copies recent to 200 users. This is a great
 >source of information and I really enjoy reading all the new info and
 >discussions of old topics. But I am not interested in personel mail
 >to Elmer@someplace.USA send it to Elmer not the Aprssig. Wow all that
 >flaming I have ben ready is affecting me now....he he
 >
 >cdavidso@neocomm.net
 ><http://www.neocomm.net/~cdavidso/>
 >Charles W. Davidson
 >Route 1, Box 139-H
 >Axton, VA 24540-9626
 >WB4PAN@WB4QOJ.VA.USA.NOAM
 >
 >

From tyork@sas.upenn.edu Tue Dec 12 15:59:17 1995
 Received: from mail1.sas.upenn.edu (tyork@MAIL1.SAS.UPENN.EDU [165.123.26.32]) by
 sys1.tapr.org (8.7.2/8.7.2) with ESMTP id PAA02083 for <aprssig@tapr.org>; Tue, 12
 Dec 1995 15:59:15 -0600 (CST)
 Received: (from tyork@localhost) by mail1.sas.upenn.edu (8.6.11/SAS 8.04)
 id QAA08069 for aprssig@tapr.org; Tue, 12 Dec 1995 16:59:06 -0500
 From: tyork@sas.upenn.edu (Tamara York)
 Posted-Date: Tue, 12 Dec 1995 16:59:06 -0500
 Message-Id: <199512122159.QAA08069@mail1.sas.upenn.edu>
 Subject: software
 To: aprssig@tapr.org
 Date: Tue, 12 Dec 1995 16:59:05 -0500 (EST)
 X-Mailer: ELM [version 2.4 PL23-upenn2.9]
 MIME-Version: 1.0
 Content-Type: text/plain; charset=US-ASCII
 Content-Transfer-Encoding: 7bit

I'm a newbie at aprs but very interested as a member of the ciil Air Patrol.
 what software is currently available and where please?

Art York
 W4VRP

tyork@mail.sas.upenn.edu

From kc5ejk@onramp.net Tue Dec 12 17:02:14 1995
Received: from mailhost.onramp.net (mailhost.onramp.net [199.1.11.3]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id RAA03823 for <aprssig@tapr.org>; Tue, 12
Dec 1995 17:02:09 -0600 (CST)
Received: from [199.1.11.153] (dal53.onramp.net [199.1.11.153]) by
mailhost.onramp.net (8.6.12/8.6.5) with SMTP id RAA13209 for <aprssig@tapr.org>;
Tue, 12 Dec 1995 17:02:02 -0600
Message-Id: <v02130501acf3ba0ab37f@[199.1.11.153]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Tue, 12 Dec 1995 17:02:52 -0600
To: aprssig@tapr.org
From: kc5ejk@onramp.net (Robert Winingham)
Subject: The big file

What is that large file (7.2 Megs) called "mac aprs new" in the
aprssig Upload area yesterday. ??

Keirh doesn't post in all lower case !!!!!!!

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

From alanwc7r@primenet.com Tue Dec 12 17:30:37 1995
Received: from mailhost1.primenet.com (mailhost1.primenet.com [198.68.32.51]) by
sys1.tapr.org (8.7.2/8.7.2) with ESMTP id RAA04828 for <aprssig@tapr.org>; Tue, 12
Dec 1995 17:30:34 -0600 (CST)
Received: from usr4.primenet.com (root@usr4.primenet.com [198.68.32.14]) by
mailhost1.primenet.com (8.7.1/8.7.1) with ESMTP id QAA13031 for
<aprssig@tapr.org>; Tue, 12 Dec 1995 16:30:30 -0700 (MST)
Received: from Primenet.primenet.com (ip204.prc.primenet.com [204.212.56.204]) by
usr4.primenet.com (8.7.1/8.7.1) with SMTP id QAA18934; Tue, 12 Dec 1995 16:30:25
-0700 (MST)
Message-Id: <199512122330.QAA18934@usr4.primenet.com>
X-Sender: alanwc7r@mailhost.primenet.com
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Tue, 12 Dec 1995 16:30:30 -0700
To: aprssig@tapr.org, aprssig@tapr.org
From: alanwc7r@primenet.com (Alan Unangst)
Subject: Re: [APRSSIG:5115] software

You can pick up the latest version of APRS, 7.4e at TAPR, Tucson Amateure
Packer Radio,
at ftp://tapr.org/tapr/SIG/aprssig/upload The file is aprs74e.zip

Good luck, and enjoy...hope to see you on the map.

73, Alan, WC7R.....//\

At 04:07 PM 12/12/95 -0600, Tamara York wrote:

>I'm a newbie at aprs but very interested as a member of the ciil Air Patrol.

>what software is currently available and where please?

>

>Art York

>W4VRP

>tyork@mail.sas.upenn.edu

>

>

>

From bruninga@nadm.navy.mil Tue Dec 12 19:16:36 1995

Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id TAA10827 for <aprssig@tapr.org>; Tue,
12 Dec 1995 19:16:34 -0600 (CST)

Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
UAA04083; Tue, 12 Dec 1995 20:16:58 -0500

Date: Tue, 12 Dec 1995 20:16:57 -0500 (EST)

From: Bob Bruninga <bruninga@nadm.navy.mil>

To: aprssig@tapr.org

Subject: APRS Satellite 11 Jan!

Message-ID: <Pine.SUN.3.91.951212201032.3973F-100000@greatlakes>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

I dont know if everyone is seeing all the mail, but I hope all APRS users
are aware that the next Shuttle mission scheduled for 11 Jan will have
the SPRE on board the SPARTAN PAYLOAD. SPRE was built by a group from
the Univ of Maryland. SPRE will operate for 24 to 48
hours as a satellite detached from the Shuttle. It will send down its
GPS posit in AX.25 packet (not APRS formatted) but the format WILL be
plotted by APRtrak that has the sepcial X-Y-Z decoder in it.

Also APRtrak willl plot the TELEMETRY on the TELEMETRY page.

But the GREAT news is that the SPRE will also digipeat APRS position reports!

We do NOT want to OVERLOAD the uplink, but we also want to be sure that a
good number of stations try to digipeat their grid square via the SPRE
digipeater. PUT IT ON YOUR CALENDAR! It will only last a day or so, so
BE READY and understand all about APRtrak or the SPACE mode in APRS...

From cdavidso@hemisphere.neocomm.net Tue Dec 12 20:04:36 1995

Received: from hemisphere.neocomm.net (root@hemisphere.neocomm.net
[205.160.234.1]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id UAA12522 for
<aprssig@tapr.org>; Tue, 12 Dec 1995 20:04:33 -0600 (CST)

Received: from Axton (ppp10.neocomm.net [205.160.234.26]) by
hemisphere.neocomm.net (8.6.11/8.6.9) with SMTP id VAA24554 for
<aprssig@tapr.org>; Tue, 12 Dec 1995 21:04:34 -0500

Message-Id: <199512130204.VAA24554@hemisphere.neocomm.net>

Comments: Authenticated sender is <cdavidso@neocomm.net>

From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
To: aprssig@tapr.org
Date: Tue, 12 Dec 1995 21:02:51 +0000
Subject: Virginia maps uploaded to ftp site
Reply-to: cdavidso@hemisphere.neocomm.net
Priority: normal
X-mailer: Pegasus Mail for Windows (v2.01)

I uploaded file vamaps.zip to ftp.tapr.org . This file contains some 8.4 mile maps and maplist.va as well as a short readme.txt. I also uploaded a file vamaps.txt asking the aprssig sysop to place the vamaps.zip file into the pc maps directory.

cdavidso@neocomm.net
<http://www.neocomm.net/~cdavidso/>
Charles W. Davidson
Route 1, Box 139-H
Axton, VA 24540-9626
WB4PAN@WB4Q0J.VA.USA.NOAM

From jean@pubs17.si.com Tue Dec 12 20:29:34 1995
Received: from relay5.UU.NET (relay5.UU.NET [192.48.96.15]) by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id UAA13182 for <aprssig@tapr.org>; Tue, 12 Dec 1995 20:29:31 -0600 (CST)
Received: from uucp2.UU.NET by relay5.UU.NET with SMTP id QQztvc05820; Tue, 12 Dec 1995 13:10:53 -0500 (EST)
Received: from esseye.UUCP by uucp2.UU.NET with UUCP/RMAIL ; Tue, 12 Dec 1995 13:10:53 -0500
Received: from pubs17.si.com by esseye.si.com with esmtp (Smail3.1.30.13 #37) id m0tPXEu-0001bJC; Tue, 12 Dec 95 11:07:36 -0500 (EST)
Received: by pubs17.si.com (Smail3.1.30.11 #23) id m0tPXGY-0002qMC; Tue, 12 Dec 95 11:09 EST
Message-Id: <m0tPXGY-0002qMC@pubs17.si.com>
Date: Tue, 12 Dec 95 11:09 EST
From: jean@pubs17.si.com (Richard G. Jean Jr.)
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5024] 145.790

STAY ON 145.79, let the others QSY !!!

I plan on staying on 145.79 !!!!

Thats my 2 1/2 cents worth.....

73's Rich

From mturner@fox.nstn.ca Tue Dec 12 20:58:24 1995
Received: from Fox.nstn.ca (fox.nstn.ns.ca [137.186.128.12]) by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id UAA14044 for <aprssig@tapr.org>; Tue, 12 Dec 1995 20:58:22 -0600 (CST)
Received: from kingston-ts-07.nstn.ca (kingston-ts-07.nstn.ca [137.186.19.107]) by

Fox.nstn.ca (8.7.3/8.7.3) with SMTP id WAA10488 for <aprssig@tapr.org>; Tue, 12 Dec 1995 22:58:15 -0400 (AST)
Message-Id: <199512130258.WAA10488@Fox.nstn.ca>
Sender: <mturner@fox.nstn.ca>
From: "Michael Turner" <mturner@fox.nstn.ca>
To: aprssig@tapr.org
Date: Tue, 12 Dec 1995 21:58:05 -0400
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Subject: TNC,9600 baud
Reply-to: mturner@fox.nstn.ca
X-Confirm-Reading-To: mturner@fox.nstn.ca
X-pmrqc: 1
Return-receipt-to: mturner@fox.nstn.ca
Priority: normal
X-mailer: Pegasus Mail/Windows (v1.22)

I intend to buy a TNC specifically for use for APRS. Should I choose one that can be upgraded to 9600 baud?

From largriff@Onramp.NET Tue Dec 12 21:38:45 1995
Received: from mailhost.onramp.net (mailhost.onramp.net [199.1.11.3]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id VAA15688 for <aprssig@tapr.org>; Tue, 12 Dec 1995 21:38:43 -0600 (CST)
Received: from largriff (lub10.onramp.net [199.1.172.138]) by mailhost.onramp.net (8.6.12/8.6.5) with SMTP id VAA01889 for <aprssig@tapr.org>; Tue, 12 Dec 1995 21:38:33 -0600
Message-Id: <199512130338.VAA01889@mailhost.onramp.net>
Comments: Authenticated sender is <largriff@mailhost.onramp.net>
From: "Larry Griffin" <largriff@Onramp.NET>
To: aprssig@tapr.org
Date: Tue, 12 Dec 1995 21:36:35 +0000
Subject: Re: [APRSSIG:5121] TNC,9600 baud
Reply-to: Larry Griffin <largriff@Onramp.NET>
Priority: normal
X-mailer: Pegasus Mail for Windows (v2.23)

On 12 Dec 95 at 21:06, Michael Turner wrote:

> I intend to buy a TNC specifically for use for APRS. Should I choose
> one that can be upgraded to 9600 baud?

I recommend the KPC-3 for mobile APRS use. Its compact, energy efficient, low-cost, and is the only TNC that can be remotely reconfigured. Best price for it is about \$115.

I wouldn't bother with 9600 unless you have a need NOW. My general philosophy with anything electronic is to only buy what I need today. Never pay more to get features that I *may* use later. When later comes around it will be cheaper.

"" Look Ma! No Attachments! ""

Larry Griffin <largriff@onramp.net>

From largriff@Onramp.NET Tue Dec 12 21:44:53 1995
Received: from mailhost.onramp.net (mailhost.onramp.net [199.1.11.3]) by
sys1.tapir.org (8.7.2/8.7.2) with SMTP id VAA15750 for <aprssig@tapir.org>; Tue, 12
Dec 1995 21:44:51 -0600 (CST)
Received: from largriff (lub10.onramp.net [199.1.172.138]) by mailhost.onramp.net
(8.6.12/8.6.5) with SMTP id VAA02857 for <aprssig@tapir.org>; Tue, 12 Dec 1995
21:44:48 -0600
Message-Id: <199512130344.VAA02857@mailhost.onramp.net>
Comments: Authenticated sender is <largriff@mailhost.onramp.net>
From: "Larry Griffin" <largriff@Onramp.NET>
To: aprssig@tapir.org
Date: Tue, 12 Dec 1995 21:42:50 +0000
Subject: Re: [APRSSIG:5102] U-II connections
Reply-to: Larry Griffin <largriff@Onramp.NET>
Priority: normal
X-mailer: Pegasus Mail for Windows (v2.23)

On 12 Dec 95 at 8:45, Paul Moller wrote:

> I have an automatic rain gauge made by a company other than Peet
> that I would like to interface to the U-II (or U-2000 if Santa Claus
> is generous). Does anyone have a schematic for the Peet rain gauge
> interface for comparison?

Peet's rain gauges are elegantly SIMPLE! They have little cups that
tip over whenever they fill up. As the cup tips it momentarily
closes a switch. All the Ultimeter has to do is count switch
closures. Each closure represents .1 or .01 inch, depending on the
gauge model.

"" We don't need no stinkin' attachments! ""

Larry Griffin <largriff@onramp.net>

From n0soz@n0eir.ampr.org Tue Dec 12 22:39:47 1995
Received: from hydra.carleton.ca (root@hydra.carleton.ca [134.117.12.18]) by
sys1.tapir.org (8.7.2/8.7.2) with SMTP id WAA17562 for <aprssig@tapir.org>; Tue, 12
Dec 1995 22:39:45 -0600 (CST)
Received: from n0eir.ampr.org (n0eir.ampr.org [44.46.65.2]) by hydra.carleton.ca
(8.6.9/8.6.9) with SMTP id XAA21190 for <aprssig%tapir.org@hydra.ampr.org>; Tue, 12
Dec 1995 23:39:34 -0500
X-BBS-Msg-Type: P
Date: Tue, 12 Dec 95 22:35:44 CST
Message-Id: <1465@n0eir.ampr.org>
From: n0soz@n0eir.ampr.org (Sandy)
To: aprssig@tapir.org

Subject: Re: [APRSSIG:4961] APRS Train Trip
In-Reply-To: your message of Wed, 6 Dec 1995 14:58:34 -0600 (CST).
<9512062041.AA05680@gvgadg.gvg.tek.com>

Message-Id: 1465_n0eir
From: n0soz@n0eir.#stl.mo.usa.noam (Sandy)
To: aprssig@tapr.org

Hello!

just wanted to let u know..Good luck with your trip..my sugestion take an amp,
to your wife no ham can go without his radio..she must take lots of books to study
for her ham license so she can see how much fun it is..:-)

have a good time and best wishes!

sandy

From quarry@q.continuum.net Tue Dec 12 22:54:15 1995
Received: from q.continuum.net (q.continuum.net [199.0.52.2]) by sys1.tapr.org
(8.7.2/8.7.2) with SMTP id WAA18032 for <aprssig@tapr.org>; Tue, 12 Dec 1995
22:54:13 -0600 (CST)
Received: from [199.0.52.55] (cd-6.continuum.net [199.0.52.55]) by q.continuum.net
(8.6.11/8.6.9) with SMTP id AAA00797 for <aprssig@tapr.org>; Wed, 13 Dec 1995
00:26:10 -0500
Message-Id: <v01530503acf40a37d41f@[199.0.52.55]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Tue, 12 Dec 1995 23:54:10 -0500
To: aprssig@tapr.org
From: quarry@q.continuum.net (Chip)
Subject: Re: [APRSSIG:5122] Re: TNC,9600 baud

At 21:44 12/12/95, Larry Griffin wrote:

> On 12 Dec 95 at 21:06, Michael Turner wrote:
>
> > I intend to buy a TNC specifically for use for APRS. Should I choose
> > one that can be upgraded to 9600 baud?
>
> I recommend the KPC-3 for mobile APRS use. Its compact, energy
> efficient, low-cost, and is the only TNC that can be remotely
> reconfigured. Best price for it is about \$115.

Well, that is not strictly speaking correct. I'm fairly sure the KPC-9612
is also remotely reconfigurable. I don't find that a particularly
important feature though. I have yet to setup a remote station that I need
to change the operation of (I have yet to setup a remote station).

As soon as I get off my lazy behind and make a few cables I will have a
PicoPacket w/ 2nd Serial & Battery to go with my KPC-3 (permanently in the
car for mobile packet) and my KPC-9612 (at home for desktop use).

Chip Griffin - President of Thames River Apple Users Group (TRAUG)
BBS System Operator of The Quarry (860-889-6427)

- eMail to: quarry@q.continuum.net (alternate: emmet2@aol.com)
- FidoNet to: Chip@1:320/301.0 or .1
my home page: <http://q.continuum.net/~quarry/>
TRAUG home page: <http://q.continuum.net/~quarry/TRAUG.html>

From dwetzel@acs.uswest.com Wed Dec 13 10:05:01 1995
Received: from uswat.advtech.uswest.com (uswat.advtech.uswest.com [130.13.16.1])
by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id KAA11542 for <aprssig@tapir.org>; Wed,
13 Dec 1995 10:04:59 -0600 (CST)
From: dwetzel@acs.uswest.com
Received: from easthub ([151.117.26.86]) by uswat.advtech.uswest.com (8.7.1/8.7.1)
with SMTP id JAA11913 for <aprssig@tapir.org>; Wed, 13 Dec 1995 09:04:56 -0700
(MST)
Received: by easthub.mnet.uswest.com (M-Net Hub.950111)
Received: from acmspgw1 by acs.uswest.com (5.x/SMI-SVR4)
id AB13871; Wed, 13 Dec 1995 10:04:45 -0600
Received: from ccMail by acmspgw1.mnet.uswest.com
(IMA Internet Exchange 1.04b beta) id 0ceefcc0; Wed, 13 Dec 95 09:22:52 -0600
Mime-Version: 1.0
Date: Wed, 13 Dec 1995 09:06:01 -0600
Message-Id: <0ceefcc0@acmspgw1.mnet.uswest.com>
Subject: Re: [APRSSIG:5118] APRS Satellite 11 Jan!
To: aprssig@tapir.org
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Description: cc:Mail note part

145.79 up/down?

Doug Wetzel
KC7CO
dwetzel@acs.uswest.com

Subject: [APRSSIG:5118] APRS Satellite 11 Jan!
From: aprssig@tapir.org at Internet-Mail
Date: 12/12/95 19:32

I dont know if everyone is seeing all the mail, but I hope all APRS users
are aware that the next Shuttle mission scheduled for 11 Jan will have
the SPRE on board the SPARTAN PAYLOAD. SPRE was built by a group from
the Univ of Maryland. SPRE will operate for 24 to 48
hours as a satellite detached from the Shuttle. It will send down its
GPS posit in AX.25 packet (not APRS formatted) but the format WILL be
plotted by APRtrak that has the sepcial X-Y-Z decoder in it.

Also APRtrak willl plot the TELEMETRY on the TELEMETRY page.

But the GREAT news is that the SPRE will also digipeat APRS position reports!

We do NOT want to OVERLOAD the uplink, but we also want to be sure that a
good number of stations try to digipeat their grid square via the SPRE

digipeater. PUT IT ON YOUR CALENDAR! It will only last a day or so, so BE READY and understand all about APRtrak or the SPACE mode in APRS...

From daveh@moose.erie.net Wed Dec 13 11:14:42 1995
Received: from moose.erie.net (root@moose.erie.net [199.234.142.2]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id LAA13696 for <aprssig@tapir.org>; Wed, 13 Dec 1995 11:14:40 -0600 (CST)
Received: from slip4.erie.net (slip4.erie.net [199.234.142.204]) by moose.erie.net (8.6.11/8.6.9) with SMTP id MAA04810 for <aprssig@tapir.org>; Wed, 13 Dec 1995 12:14:04 -0500
Message-Id: <199512131714.MAA04810@moose.erie.net>
X-Sender: daveh@moose.erie.net
X-Mailer: Windows Eudora Light Version 1.5.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Wed, 13 Dec 1995 12:14:34 -0500
To: aprssig@tapir.org
From: "David G. Henderson" <daveh@moose.erie.net>
Subject: Little symbols got big...

Bob,

I noticed with version 74e that the little symbols got big again. Was is intentional? I liked the smaller ones.

73, Dave, N3EOY

From randyh@gvgadg.gvg.TEK.COM Wed Dec 13 11:20:15 1995
Received: from inet1.tek.com ([134.62.48.21]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id LAA14112 for <aprssig@tapir.org>; Wed, 13 Dec 1995 11:20:03 -0600 (CST)
Received: by inet1.tek.com id <AA21288@inet1.tek.com>; Wed, 13 Dec 1995 09:19:30 -0800
Received: from tektronix.tek.com(134.62.48.24) by inet1 via smap (V1.3) id sma012298; Wed Dec 13 09:19:15 1995
Received: from gv-gate.gvg.tek.com by tektronix.TEK.COM (4.1/8.2) id AA15199; Wed, 13 Dec 95 09:19:12 PST
Received: from gvgadg.gvg.tek.com by gv-gate.gvg.tek.com (5.0/2.3) id AA21223; Wed, 13 Dec 1995 09:19:21 +0800
Received: from hallrpc (hallrpc.gvg.tek.com) by gvgadg.gvg.tek.com (4.1/SMI-4.1) id AA01411; Wed, 13 Dec 95 09:19:18 PST
Message-Id: <9512131719.AA01411@gvgadg.gvg.tek.com>
X-Sender: randyh@gvgadg.gvg.tek.com
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Wed, 13 Dec 1995 09:19:08 -0800
To: aprssig@tapir.org
From: randyh@gvgadg.gvg.TEK.COM (Randy Hall)
Subject: APRS Train Trip Update Report - 7 Days to go!!

Well, it is one week from today that we leave on our APRS train trip from Sacramento Ca to Rochester NY.

I have heard from several people about various ARPS activity across the country. Thanks!! Looking for more activity. How about Denver, Chicago, and others?

I had my first mobile test of my APRS system this morning while driving to work. (I didn't hit anything!) I had the laptop, GPS-45, Pico Packet, & FT-470 all running. It works!!!! I have been testing from home and I know that people in the Sacramento and SF area have seen the train symbol sitting in the middle of Lake Tahoe!! Bob, thanks for the Pico support in 74E, it works!!

Now I need to refine the system, the cables are a mess.

I noticed while driving that I did not see the direction vector on my mobile symbol. What should I set to make that work?

Look for the choo choo symbol soon!!

Randy
WA2AGE

```

|                                     My opinions are my own.
|
|                                     My computer is multimedia deprived.
|
| Randy Hall WA2AGE    randyh@gvgadg.gvg.tek.com    Grass Valley Group

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From DDOBBINS@aol.com Wed Dec 13 11:22:47 1995
Received: from mail02.mail.aol.com (mail02.mail.aol.com [152.163.172.66]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id LAA14165 for <aprssig@tapr.org>; Wed, 13
Dec 1995 11:22:45 -0600 (CST)
From: DDOBBINS@aol.com
Received: by mail02.mail.aol.com (8.6.12/8.6.12) id MAA27646 for aprssig@tapr.org;
Wed, 13 Dec 1995 12:22:13 -0500
Date: Wed, 13 Dec 1995 12:22:13 -0500
Message-ID: <951213122212_53006259@mail02.mail.aol.com>
To: aprssig@tapr.org
Subject: APRS AERO MOBILE A SUCCESS

Aloha Y'all. While many of you were digging out from three feet of snow, or anchoring down to keep from being blown away, Ted/NH6YK and I (Dave/WH6YC) went flying around Oahu with an APRS GPS standalone tracker. The flight was a complete success, with a solid track recorded at monitoring stations around the island. We used an HTX-202, Garmin 45 and PacComm Handipacket. The antenna, a 19" whip, was positioned inside the cockpit window at 45 degrees, and the GPS antenna was suction cupped to the rear window and similar slant. The Cessna 152 never exceeded 99kts, so we were locked-up with the satellites

for most of the trip. There was no degradation to aircraft comms noticed.

We'll be flying again when we hear of another big winter storm on the mainland. It's about time for the beach folks. Aloha, Dave. (eh eh eh eh)

From jleonard@tbcnet.com Wed Dec 13 11:37:42 1995
Received: from tbc2.tbcnet.com (root@tbc2.tbcnet.com [205.199.1.5]) by
sys1.tapir.org (8.7.2/8.7.2) with SMTP id LAA14953 for <aprssig@tapir.org>; Wed, 13
Dec 1995 11:37:38 -0600 (CST)
Received: from jbleonard.tbcnet.com (jbleonard.tbcnet.com [205.199.1.129]) by
tbc2.tbcnet.com (8.6.12/8.6.12) with SMTP id LAA22054 for <aprssig@tapir.org>; Wed,
13 Dec 1995 11:37:25 -0600
Date: Wed, 13 Dec 1995 11:37:25 -0600
Message-Id: <199512131737.LAA22054@tbc2.tbcnet.com>
X-Sender: jleonard@tbcnet.com
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapir.org
From: jleonard@tbcnet.com (John B. Leonard)
Subject: Re: [APRSSIG:5100] Grabber

ke4eer@ro.com (William Nolle) wrote:

>For those that have been asking me for a copy of the screen grabber i have
>uploaded the file to tapir under the file name GRAB397.ZIP.

Thanks Bill/EER! That program is really neat! Now maybe I can get some DOS
screens on the NIAN Web page.

J Barry Leonard HamRadio N9VJQ/EN510W

Subependymoma 1990

DeKalb IL

E-MAIL: jleonard@tbcnet.com

From kc5ejk@onramp.net Wed Dec 13 11:44:52 1995
Received: from mailhost.onramp.net (mailhost.onramp.net [199.1.11.3]) by
sys1.tapir.org (8.7.2/8.7.2) with SMTP id LAA15015 for <aprssig@tapir.org>; Wed, 13
Dec 1995 11:44:49 -0600 (CST)
Received: from [199.1.11.156] (dal56.onramp.net [199.1.11.156]) by
mailhost.onramp.net (8.6.12/8.6.5) with SMTP id LAA22499 for <aprssig@tapir.org>;
Wed, 13 Dec 1995 11:44:44 -0600
Message-Id: <v02130500acf4c160182d@[199.1.11.156]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Wed, 13 Dec 1995 11:45:35 -0600
To: aprssig@tapir.org
From: kc5ejk@onramp.net (Robert Winingham)
Subject: Kantronic echnical support

----- I found this on the internet today -----

Good news...Kantronics now has an e-mail account for technical support and

service. You can send your questions to service@kantronics.com. They will respond by e-mail.

Remember, too that RF Concepts is a part of Kantronics, so your questions on the amplifiers are welcome as well.

73

Bob - Dallas, TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

From bruninga@nadn.navy.mil Wed Dec 13 12:09:09 1995
Received: from greatlakes.nadn.navy.mil (greatlakes.nadn.navy.mil [131.121.9.4])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id MAA16013 for <aprssig@tapir.org>; Wed,
13 Dec 1995 12:09:07 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadn.navy.mil (8.6.12/8.6.12) id
NAA10717; Wed, 13 Dec 1995 13:09:31 -0500
Date: Wed, 13 Dec 1995 13:09:30 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:5127] Little symbols got big...
In-Reply-To: <199512131714.MAA04810@moose.erie.net>
Message-ID: <Pine.SUN.3.91.951213130829.10563B-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 13 Dec 1995, David G. Henderson wrote:

> I noticed with version 74e that the little symbols got big again. Was is
> intentional? I liked the smaller ones.

APR REPLY: Hopefully ONLY the WX symbol got larger again. All others
should be as small as they were in the betas... If not, lemme know...

From ke4eer@ro.com Wed Dec 13 12:26:17 1995
Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tapir.org
(8.7.2/8.7.2) with SMTP id MAA16627 for <aprssig@tapir.org>; Wed, 13 Dec 1995
12:26:12 -0600 (CST)
Received: from ts2p2.ro.com (ts2p2.ro.com [205.216.92.52]) by sh1.ro.com
(8.6.9/8.6.9) with SMTP id NAA29913 for <aprssig@tapir.org>; Wed, 13 Dec 1995
13:30:09 -0600
Message-Id: <199512131930.NAA29913@sh1.ro.com>
X-Mailer: InternetWorks Mail and News 1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Wed, 13 Dec 1995 12:21:38
From: ke4eer@ro.com (William Nolle)
To: aprssig@tapir.org
Subject: Re: [APRSSIG:5127] Little symbols got big...

I agree the smaller ones looked much better that's for sure. Backwards
engineering i guess hi...

Bill KE4EER

>Bob,
>
>I noticed with version 74e that the little symbols got big again. Was is
>intentional? I liked the smaller ones.
>
>73, Dave, N3EOY
>

From ke4eer@ro.com Wed Dec 13 12:42:14 1995
Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tappr.org
(8.7.2/8.7.2) with SMTP id MAA17461 for <aprssig@tappr.org>; Wed, 13 Dec 1995
12:42:12 -0600 (CST)
Received: from ts2p2.ro.com (ts2p2.ro.com [205.216.92.52]) by sh1.ro.com
(8.6.9/8.6.9) with SMTP id NAA30247 for <aprssig@tappr.org>; Wed, 13 Dec 1995
13:35:44 -0600
Message-Id: <199512131935.NAA30247@sh1.ro.com>
X-Mailer: InternetWorks Mail and News 1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Wed, 13 Dec 1995 12:27:12
From: ke4eer@ro.com (William Nolle)
To: aprssig@tappr.org
Subject: Re: [APRSSIG:5130] Re: Grabber

Yes i figured most APRS users would like to save some screens of all the
activity around their area, it's a really neat way of capturing a screen.
Glad you like it..

>ke4eer@ro.com (William Nolle) wrote:
>
>>For those that have been asking me for a copy of the screen grabber i have
>>uploaded the file to tappr under the file name GRAB397.ZIP.
>
>Thanks Bill/EER! That program is really neat! Now maybe I can get some DOS
>screens on the NIAN Web page.
>J Barry Leonard HamRadio N9VJQ/EN510W
>Subependymoma 1990
>DeKalb IL
>E-MAIL: jleonard@tbcnet.com
>
>

From jrbadams@interlog.com Wed Dec 13 13:30:34 1995
Received: from gold.interlog.com (root@gold.interlog.com [198.53.145.2]) by
sys1.tappr.org (8.7.2/8.7.2) with SMTP id NAA19545 for <aprssig@tappr.org>; Wed, 13
Dec 1995 13:30:32 -0600 (CST)
Received: from jrbadams.interlog.com (jrbadams.interlog.com [199.212.152.47]) by
gold.interlog.com (8.6.10/8.6.10) with SMTP id OAA24418 for <aprssig@tappr.org>;

Wed, 13 Dec 1995 14:11:29 -0500
Message-Id: <199512131911.0AA24418@gold.interlog.com>
X-Sender: jrbadams@mail.interlog.com
X-Mailer: Windows Eudora Version 1.4.3
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Wed, 13 Dec 1995 14:11:46 -0500
To: aprssig@tapr.org
From: jrbadams@interlog.com (John R.B. Adams)
Subject: Re: [APRSSIG:5132] Version 74E

Tp: Bob Bruninga

I apologize for probably not addressing this message properly, but it is my first attempt to write TO the Sig (which source of info I am enjoying immensely)!

And sincere tnx to YOU, Bob, for creating and developing the APRS programme. Am having a great time with it! (Yes, I am REGISTERED hihi!)

I have downloaded the V.74E from two sources - ftp.cdx.net and the ProjectX BBS. The former gives me a ZIP file of 1127295 blks and from the latter source I get a ZIP file of 1123845. Both packages unzipped allright and, when installed seem to work as they should (as far as I can see). Is the fact that the package sizes are different significant?

Also, when on line with either of the 'new' 74E prgs, they seem to be indicating in the packet info sent out from time to time that I am still using 74C .. although the opening screen does indicate 74E .. Should this be?

Minor points, I agree .. and sorry to bother you with trivia .. but I am interested.

TNX agn, and 73,

John VE3ASX.

John R.B. Adams, VE3ASX

120 Raglan Avenue - Apt. 907
Toronto, Ontario, Canada
M6C 2L4

(416) 653-9842

From w5rkn@amsat.org Wed Dec 13 13:35:14 1995
Received: from zoom.bga.com (root@zoom.bga.com [198.3.118.20]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id NAA19896 for <aprssig@tapr.org>; Wed, 13 Dec 1995 13:35:12 -0600 (CST)

Received: from [204.181.160.10] (maria-4j.ip.realtime.net [204.181.160.10]) by zoom.bga.com (8.6.12/8.6.10) with SMTP id NAA20307 for <aprssig@tapr.org>; Wed, 13 Dec 1995 13:35:06 -0600
X-Sender: rparsons@bga.com
Message-Id: <v02130500acf4d88e5956@[204.181.160.79]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Wed, 13 Dec 1995 13:35:04 -0600
To: aprssig@tapr.org
From: w5rkn@amsat.org (Ronald G. Parsons)
Subject: APRtrak and MIR

I had a couple successful digipeats last night from ROMIR. Didn't see any other digipeats though.

How about some others testing APRtrak via ROMIR so we can make sure everything works for the SPRE/Shuttle flight this January.

Ron W5RKN

also:
rparsons@bga.com

From w5rkn@amsat.org Wed Dec 13 13:39:46 1995
Received: from zoom.bga.com (root@zoom.bga.com [198.3.118.20]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id NAA20015 for <aprssig@tapr.org>; Wed, 13 Dec 1995 13:39:44 -0600 (CST)
Received: from [204.181.160.10] (maria-4j.ip.realtime.net [204.181.160.10]) by zoom.bga.com (8.6.12/8.6.10) with SMTP id NAA20779 for <aprssig@tapr.org>; Wed, 13 Dec 1995 13:39:39 -0600
X-Sender: rparsons@bga.com
Message-Id: <v02130501acf4dbc41a81@[204.181.160.10]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Wed, 13 Dec 1995 13:39:37 -0600
To: aprssig@tapr.org
From: w5rkn@amsat.org (Ronald G. Parsons)
Subject: Re: [APRSSIG:5116] The big file

>What is that large file (7.2 Megs) called "mac aprs new" in the
>aprssig Upload area yesterday. ??

I tried several times to download it but the server seemed to stop about half-way through.

I assume it is an all-in-one file. Probably not a good idea as an abort kills the whole thing.

Ron W5RKN

also:
rparsons@bga.com

From gwelte@blueox.bji.net Wed Dec 13 14:45:57 1995
Received: from blueox.bji.net (root@blueox.bji.net [206.31.226.1]) by
sys1.tapir.org (8.7.2/8.7.2) with SMTP id OAA22663 for <aprssig@tapir.org>; Wed, 13
Dec 1995 14:45:54 -0600 (CST)
Received: from [206.31.226.31] ([206.31.226.31]) by blueox.bji.net (8.6.9/8.6.9)
with SMTP id OAA08531 for <aprssig@tapir.org>; Wed, 13 Dec 1995 14:44:06 -0600
Date: Wed, 13 Dec 1995 14:44:06 -0600
Message-Id: <v01530500acf4950f55a2@[206.31.226.37]>
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
To: aprssig@tapir.org
From: gwelte@blueox.bji.net (George A. Welte)
Subject: Ultimeter 2000/APRS74c/AEA PK12

Hi Bob, I have tried everything on God's blue earth to get the 2000 to
transmit the weather on a remote type set-up using the AEA PK12, & APRS74c.
I have tried many combinations of commands to no avail. I called Peet
brothers and got the header '\$ULTW' for the packet mode. They said they
were also trying a 2000 with APRS and couldn't get it going. In your text
along with the 74c release you mentioned the LFIGNORE must be "on" Do you
know what the equivalent command is on the AEA?? You have developed quite
a program and we are looking forward to working with it. We are
coordinating our weather output with the National Weather Service in Grand
=46orks, ND. Soon we will have 5 or 6 remote weather sites in operation.

Any help you can provide with the above will be appreciated. If more info
is needed please let me know.

Sincerely

George A. Welte N=D8WBU
APRS registration # 22519

From bruninga@nadn.navy.mil Wed Dec 13 16:31:16 1995
Received: from greatlakes.nadn.navy.mil (greatlakes.nadn.navy.mil [131.121.9.4])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id QAA00311 for <aprssig@tapir.org>; Wed,
13 Dec 1995 16:31:14 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadn.navy.mil (8.6.12/8.6.12) id
RAA19595; Wed, 13 Dec 1995 17:31:37 -0500
Date: Wed, 13 Dec 1995 17:31:36 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:5135] Re: Version 74E
In-Reply-To: <199512131911.0AA24418@gold.interlog.com>
Message-ID: <Pine.SUN.3.91.951213173045.19526C-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

74e still uses the same format as 74c for the CFG file. Therefore, it doesn't change. To update your beacon, just change it to 74e and re-save a config file...

DE WB4APR in Annapolis MD. (Not anywhere near Greatlakes)

From john.kerr@projectx.com Wed Dec 13 17:32:41 1995
Received: from gpu2.westonia.com (nnpt2.westonia.com [204.92.238.38]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id RAA03287 for <aprssig@tapir.org>; Wed, 13 Dec 1995 17:32:32 -0600 (CST)
Received: by gpu2.westonia.com (/##/\ Smail3.1.29.0.3 #29.10) id <m0tQ0dR-000iAHC@gpu2.westonia.com>; Wed, 13 Dec 95 18:31 EST
To: aprssig@tapir.org
Subject: Re: [APRSSIG:5135] Re: Version 74E
From: john.kerr@projectx.com (SYSOP)
Message-ID: <8B6D431.0021000B25.uuout@projectx.com>
Date: Wed, 13 Dec 95 17:53:00 -5
Organization: Project X BBS - VE3SVE - Brampton, Ontario (905) 792-7890
Reply-To: john.kerr@projectx.com (SYSOP)
References: <199512131911.0AA24418@gold.interlog.com>
X-Mailreader: PCBoard Version 15.22
X-Mailer: PCBoard/UUOUT Version 1.20

-> I have downloaded the V.74E from two sources - ftp.cdx.net and the
-> ProjectX BBS. The former gives me a ZIP file of 1127295 blks and from the

Hi John..

As the "owner" of Project X, I can vouch that the files you downloaded through the system of Project X are in fact the "real" thing. The file size difference is due to the fact of the header to identify where the file came from and also due to the fact we have rezipped the package and verified the fact there was no virus present in the system.

You will also find the latest APRS maps for Ontario region available at both the Project X LL BBS (905.792.7890) or via. FTP at ftp.projectx.com or via. WWW at www.projectx.com

John - VE3SVE

From bruninga@nadm.navy.mil Wed Dec 13 18:19:17 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id SAA07247 for <aprssig@tapir.org>; Wed, 13 Dec 1995 18:19:15 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id TAA20646; Wed, 13 Dec 1995 19:19:39 -0500
Date: Wed, 13 Dec 1995 19:19:38 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapir.org
cc: amsat-bb@amsat.org

Subject: METEOR SCATTER TONIGHT!

Message-ID: <Pine.SUN.3.91.951213190248.20591A-100000@greatlakes>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

In case you forgot, tonight's the big night for the 2 meter and 6 meter USA nationwide Meteor Scatter PACKET test. See details in Dec QST. For all APRS stations, starting at 0000 UTC 2000 EST use FILES-ZERO to clear all your pages and set ALT-S-MODES-mscaT. Then if you have a beam, point it towards a city 600 to 1200 miles away that has APRS activity. If you have anything over 50 watts, then set your XMT duty cycle to 100%.

Low power stations should set duty cycle to less than 10%. (so you dont QRM everyone else in your area trying to LISTEN)

The only time for HIGH power stations to set to less than 100% is if you also want to LISTEN a little bit for other stations in your same timing SECTOR. Florida stations, for example, may want to listen a little bit for other SE stations which are NW of them , but still would be transmitting in the same #1 time frame. Similarly, for New England. READ METEOR.txt and think it all through....

ALSO be CERTAIN your PC clock is within a few seconds of real-time, or all this scheduling is out the window. If you are serious about DX, then you might want to put your PHONE# in your BEACON.

It is best NOT to send APRS MESSAGES, because that REMOVES your grid-square from your packets and no-one else will KNOW where you are...

Of course everyone must use the same freq of 145.79. Be sure it is available in your area before you transmit. Even if it is coordinated to someone else, it wont hurt to LISTEN for weak DX packets that might come in...

|DE WB4APR in Annapolis MD.|

From bruninga@nadm.navy.mil Wed Dec 13 18:24:41 1995

Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id SAA07881 for <aprssig@tapr.org>; Wed, 13 Dec 1995 18:24:39 -0600 (CST)

Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id TAA20657; Wed, 13 Dec 1995 19:25:02 -0500

Date: Wed, 13 Dec 1995 19:25:02 -0500 (EST)

From: Bob Bruninga <bruninga@nadm.navy.mil>

To: aprssig@tapr.org

Subject: Beaming to CHicago/Atlanta

Message-ID: <Pine.SUN.3.91.951213191941.20591B-100000@greatlakes>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

The 40 foot Academy Dish is pointed at Chicago from the Annapolis area. We are running 400 watts into an 18 dB gain antenna. How about 25 Kw ERP! But its narrow beam will see fewer meteors, but if it does hit one, you will hear it between Indiana and Wisconsin!

Look for the call W3ADO

Similarly, our OSCAR array will be pointed at ATLANTA/FLA, but only 1500W ERP. It will be W3ADO-1

|DE WB4APR in Annapolis MD.|

From bruninga@nadm.navy.mil Wed Dec 13 18:32:53 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id SAA08161 for <aprssig@tapr.org>; Wed,
13 Dec 1995 18:32:50 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
TAA20682; Wed, 13 Dec 1995 19:33:14 -0500
Date: Wed, 13 Dec 1995 19:33:13 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5138] Ultimeater 2000/APRS74c/AEA PK12
In-Reply-To: <v01530500acf4950f55a2@[206.31.226.37]>
Message-ID: <Pine.SUN.3.91.951213192847.20591E-1000000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 13 Dec 1995, George A. Welte wrote:

> Hi Bob, I have tried everything on God's blue earth to get the 2000 to
> transmit the weather on a remote type set-up using the AEA PK12, & APRS74c.

APR REPLY: You didnt say *what was wrong*...???

- 1) is the ULTIMETER not sending the string once every 5 minutes to the TNC?
- 2) is the AEA not parsing the data?
- 3) is the AEA not transmitting anything?
- 4) is the AEA sending its POSIT in the BText, but no WX data?
- 5) APRS74c should not be involved at all in TRANSMITTING THE DATA
- 6) Is everytihg above TRANSMITTING the WX just fine, but APRS is not decoding it?
- 7) Are your using the AEA in the UI mode and the ULTIMETER in the PACKET mode?
- 8) Or are you using the AEA in the GPS mode and the ULTIMETER in the continuous mode?
- 9) ETC....

I need to know more than "it doestn work..." TNX.

From tdrumm@sparc.isl.net Wed Dec 13 20:25:33 1995
Received: from sparc.isl.net (root@sparc.isl.net [199.3.25.3]) by sys1.tapr.org

(8.7.2/8.7.2) with SMTP id UAA12539 for <aprssig@tapr.org>; Wed, 13 Dec 1995
20:25:31 -0600 (CST)
Received: from slip-05.isl.net (slip-05.isl.net [199.3.25.105]) by sparc.isl.net
(8.6.10/8.6.10) with SMTP id UAA05532 for <aprssig@tapr.org>; Wed, 13 Dec 1995
20:25:51 -0600
Message-Id: <199512140225.UAA05532@sparc.isl.net>
X-Sender: tdrumm@sparc.isl.net
X-Mailer: Windows Eudora Version 1.4.3
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Wed, 13 Dec 1995 20:25:27 -0600
To: aprssig@tapr.org
From: tdrumm@sparc.isl.net (Tony Drumm)
Subject: Re: [APRSSIG:5141] METEOR SCATTER TONIGHT!

>In case you forgot, tonight's the big night for the 2 meter and 6 meter
>USA nationwide Meteor Scatter PACKET test. See details in Dec

Early-early results! I have our IBM club station, WD0GNK set up using
APRS and transmitting beaming ESE from here in Rochester, MN. I set
it up around 4:00 CST while I was at work. To make sure things were
working as desired, I had my home packet station turned on to 145.79.
I called my wife, KB0OND, had her start the packet program and monitor
my packets. All was working as desired. When I got home, we went to
the Rochester ARC pizza party. Forgot that I left my home station on.
When we got home from there (through the miserable icy-snow), I thought
I'd check my email. While I was at it, I kicked up paKet and checked
the heard list in the TNC. Wow! Only 8:00pm CST and here are the
non-local stations on MH list:

17:06 N7VLR
16:55 N0JVH
16:54 W7KB
16:49 W3ADO (Hi Bob!)
16:46 N2CZF
16:36 VE2JOR
16:22 K1VOW
16:15 NP2IJ
16:01 VA3GOG
15:42 KN4IM
15:40 WB5TKC

Equipment here is an old Azden PC3000 running up to a homemade
4 element J-beam - pointed nearly NORTH! Hm.

Any chance I'm getting these digipeated? Since I didn't have
anything logging the packets, I don't know what I really saw.
Still, I'm impressed. May fire up APRS tonight and let it run.

73!
Tony Drumm
internet: tdrumm@sparc.isl.net
Packet: aa0sm@wd0gnk.#semn.mn.usa.na

From bruninga@nadm.navy.mil Wed Dec 13 20:59:57 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id UAA13830 for <aprssig@tapir.org>; Wed,
13 Dec 1995 20:59:54 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
WAA21048; Wed, 13 Dec 1995 22:00:20 -0500
Date: Wed, 13 Dec 1995 22:00:19 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapir.org
Subject: PHG and MScatt!
Message-ID: <Pine.SUN.3.91.951213215326.21003A-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Even if you do not see a single Meteor Reflection, one thing that 24
hours worth of METEOR SCATTER mode can do for you is to calibrate your
PHG curve! (and show you the value of digipeaters!)

My map looks awfully bleak in Meteor mode (DIRECT FILTER IS ON). Instead
of 5 pages of posits going out 150 miles in both directions, I see 8
stations within about 15.

BUT! When I hit MAPS-PLOTS-POWER, Everyone of those stations intersects
with my PHG circle! And my PHG does NOT go any further. This tells me
that my PHG pretty well reflects reality. This is a good test!

If you clear your screen and run MScatt mode you will only see DIRECT
signals from onther stations. A great way to
infer your radio range...

|DE WB4APR in Annapolis MD.| -----

From bruninga@nadm.navy.mil Wed Dec 13 21:15:39 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id VAA14507 for <aprssig@tapir.org>; Wed,
13 Dec 1995 21:15:37 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
WAA21104; Wed, 13 Dec 1995 22:16:02 -0500
Date: Wed, 13 Dec 1995 22:16:01 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapir.org
Subject: Mscatt False Alarm?
In-Reply-To: <199512140225.UAA05532@sparc.isl.net>
Message-ID: <Pine.SUN.3.91.951213221108.21003C-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 13 Dec 1995, Tony Drumm wrote:

> the Rochester ARC pizza party. Forgot that I left my home station on.
> When we got home from there (through the miserable icy-snow), I thought

> I'd check my email. While I was at it, I kicked up paKet and checked
> the heard list in the TNC. Wow! Only 8:00pm CST and here are the
> non-local stations on MH list:

APR REPLY: Looks more to me like someone left your local area APRS HF
gateway running. Most of those calls are the guys I see on HF every day..

Unless your HEARD Log stores the path, or somehow marks those signals
that it heard direct, you have no knowledge of how they got there, hi hi...

If you run APRS in the MScatt mode, then it will ignore ALL packets
except for those that it hears DIRECT... It will capture the full
packet, plus you can see the proof that they were direfct on the D page.

BUT THE D PAGE IS NOT SAVED IN THE BACKUP FILE!!!

So BEFORE you stop APRS over the next 24 hours, BE SURE TO CHECK the D
PAGE before you hit QUIT.

|DE WB4APR in Annapolis MD.|

From jerdptro@xnet.com Wed Dec 13 21:42:00 1995
Received: from flood.xnet.com (flood.xnet.com [198.147.221.35]) by sys1.tapr.org
(8.7.2/8.7.2) with ESMTP id VAA15652 for <aprssig@tapr.org>; Wed, 13 Dec 1995
21:41:58 -0600 (CST)
Received: from n9vhw.xnet.com by flood.xnet.com (8.7/XNet-1.4R) with SMTP
id VAA04708 for <aprssig@tapr.org>; Wed, 13 Dec 1995 21:35:18 -0600 (CST)
Message-Id: <199512140335.VAA04708@flood.xnet.com>
Comments: Authenticated sender is <jerdptro@quake.xnet.com>
From: "Jerry" <jerdptro@xnet.com>
To: aprssig@tapr.org
Date: Wed, 13 Dec 1995 21:41:53 +0000
Subject: Re: [APRSSIG:5144] Re: METEOR SCATTER TONIGHT!
Reply-to: jerdptro@xnet.com
Priority: normal
X-mailer: Pegasus Mail for Windows (v2.20)

Hi Tony,
I think you picked up activity from HF/VHF gates....calls look very
familiar.
N9VHW (chicago 30mtrs<>145.79 gate)
Jerry Di Pietro
N9VHW
Streamwood, IL
jerdptro@xnet.com

From cn2859@abaco.coastalnet.com Wed Dec 13 21:55:06 1995
Received: from abaco.coastalnet.com (abaco.coastalnet.com [204.183.40.2]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id VAA16194 for <aprssig@tapr.org>; Wed, 13
Dec 1995 21:55:04 -0600 (CST)
Received: from pm-wsh1-9.coastalnet.com by abaco.coastalnet.com (4.1/SMI-4.1)

id AA15789; Wed, 13 Dec 95 22:54:03 EST
Date: Wed, 13 Dec 95 22:54:01 EST
Message-Id: <9512140354.AA15789@abaco.coastalnet.com>
X-Sender: cn2859@abaco.coastalnet.com
X-Mailer: Windows Eudora Light Version 1.5.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: "David M. Gaytko / WD4KPD" <cn2859@abaco.coastalnet.com>
Subject: aprs mscat test

heard wa4ntf around 0200.

running 120w/7ele/heading 240

73's...david

From bruninga@nadm.navy.mil Wed Dec 13 22:48:27 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id WAA18324 for <aprssig@tapr.org>; Wed,
13 Dec 1995 22:48:25 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
XAA21350; Wed, 13 Dec 1995 23:48:50 -0500
Date: Wed, 13 Dec 1995 23:48:50 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapr.org
Subject: Track history LOG
In-Reply-To: <951213224012_72391197@mail04.mail.aol.com>
Message-ID: <Pine.SUN.3.91.951213234626.21310D-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Dave Dobbins reports that his PC did NOT save a track history of his
airplane trip even though he had LOG ON. I have had mine turned off too..

Is anyone else out there haveing problems with the log NOT automatically
saving? ASSUMING YOU HAD LOG TUNRED ON, of course...

|DE WB4APR in Annapolis MD.|

From bruninga@nadm.navy.mil Wed Dec 13 22:57:38 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id WAA18558 for <aprssig@tapr.org>; Wed,
13 Dec 1995 22:57:36 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
XAA21373; Wed, 13 Dec 1995 23:58:01 -0500
Date: Wed, 13 Dec 1995 23:58:01 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapr.org

Subject: MScatt REPORTS FORMAT:
Message-ID: <Pine.SUN.3.91.951213235304.21310F-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Stan Horzepa is going to put together the data on reports. Please report the following!

Your GRID SQ (all 6 chars)
Other Stns Grid Sq (all 6 chars)
Number of packets and times (from your HEARD LOG)
DISTANCE (use cursor and MAPS-PLOTS-RANGE command)

Do NOT report anything under 300 miles, its probably tropo...

|DE WB4APR in Annapolis MD.|

From BenWS5R@aol.com Wed Dec 13 23:12:15 1995
Received: from emout04.mail.aol.com (emout04.mail.aol.com [198.81.10.12]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id XAA19063 for <aprssig@tapir.org>; Wed, 13 Dec 1995 23:12:09 -0600 (CST)
From: BenWS5R@aol.com
Received: by emout04.mail.aol.com (8.6.12/8.6.12) id AAA09157 for aprssig@tapir.org; Thu, 14 Dec 1995 00:11:38 -0500
Date: Thu, 14 Dec 1995 00:11:38 -0500
Message-ID: <951214001137_132867759@emout04.mail.aol.com>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:5141] METEOR SCATTER TONIGHT!

Beaming towards the midwest from DM95cf (Amarillo, TX) with 160 watts into 18 elements.

From rkramer@cdx.net Thu Dec 14 01:15:04 1995
Received: from cdx.net (www.cdx.net [204.101.129.2]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id BAA28029 for <aprssig@tapir.org>; Thu, 14 Dec 1995 01:15:02 -0600 (CST)
Received: from ron_k.vaxxine.com (204.101.129.57) by cdx.net id <A19951214071456161@cdx.net>; Thu, 14 Dec 1995 02:14:56 -0500
From: rkramer@cdx.net (Ronald Kramer)
To: aprssig@tapir.org
Subject: Re: [APRSSIG:5135] Re: Version 74E
Date: Thu, 14 Dec 1995 07:14:49 GMT
Message-Id: <30cfc93.33820809@mail.cdx.net>
References: <199512131911.0AA24418@gold.interlog.com>
In-Reply-To: <199512131911.0AA24418@gold.interlog.com>
X-Mailer: Forte Agent .99c/16.141

On Wed, 13 Dec 1995 13:50:54 -0600 (CST), you wrote:

> I have downloaded the V.74E from two sources - ftp.cdx.net and the
>ProjectX BBS. The former gives me a ZIP file of 1127295 blks and from the
>latter source I get a ZIP file of 1123845. Both packages unzipped allright

>and, when installed seem to work as they should (as far as I can see). Is
>the fact that the package sizes are different significant?
>
> Also, when on line with either of the 'new' 74E prgs, they seem to
>be indicating in the packet info sent out from time to time that I am still
>using 74C .. although the opening screen does indicate 74E .. Should
>this be?

John, at the moment I can not explain it, I downloaded the files from
TAPR to my home computer using ws_ftp32, and turned around and
uploaded them to my web page on CDX. On my home computer
aprs74e.zip is 1127295 bytes also it is that size on TAPR and also
on Projectx. I took me a while to check it out as I could not get
connected to TAPR when I got home by either FTP or web browser
I will check with Barry the webmaster at CDX and see what he has
to offer.
Will keep all informed, your host at web site CDX.NET

Regards, Ron ... 73 de Ron
Internet: rkramer@cdx.net (Ron Kramer)
Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)

From jleonard@tbcnet.com Thu Dec 14 06:35:59 1995
Received: from tbc2.tbcnet.com (root@tbc2.tbcnet.com [205.199.1.5]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id GAA06625 for <aprssig@tapr.org>; Thu, 14
Dec 1995 06:35:55 -0600 (CST)
Received: from jbleonard.tbcnet.com (jbleonard.tbcnet.com [205.199.1.129]) by
tbc2.tbcnet.com (8.6.12/8.6.12) with SMTP id GAA02338 for <aprssig@tapr.org>; Thu,
14 Dec 1995 06:35:56 -0600
Date: Thu, 14 Dec 1995 06:35:56 -0600
Message-Id: <199512141235.GAA02338@tbc2.tbcnet.com>
X-Sender: jleonard@tbcnet.com
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: jleonard@tbcnet.com (John B. Leonard)
Subject: Re: [APRSSIG:5130] Re: Grabber

>I ran the Grabber, too!!! Got some really nice GIFs, too....One
recommendation:
>you have to run it in the Super VGA mode or you get the page of posits
>overwriting the screen! I execute GRABBER (file directory) @TRIDENT and that
>took care of it!
>
>How did you do the "times accessed" function on your web page? I want it!
>
>73 de Jim, KU0G
>
>

Hi Jim,

All the credit for the Web page goes to Dave Chesser, KA9NHL. He read a book on how to make a Web page and made one! It was his idea, along with Ed Rogers N9LCI, to get one going.

email addresses:

Dave KA9NHL davidc@tbcnet.com

Ed N9LCI edwardwr@skognet.com

The "times accessed" function seems to be governed by the Internet provider. Again, Dave can tell you more.

URL (the place on the Web to go) for the Northern IL APRS Network Page (NIAN) is:

<http://tbcnet.com/~davidc/aprs.html>

J Barry Leonard HamRadio N9VJQ/EN510W

Subependymoma 1990

DeKalb IL

E-MAIL: jleonard@tbcnet.com

From mwalker@interlog.com Thu Dec 14 07:46:06 1995

Received: from gold.interlog.com (root@gold.interlog.com [198.53.145.2]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id HAA08783 for <aprssig@tapir.org>; Thu, 14 Dec 1995 07:46:04 -0600 (CST)

Received: from interlog.com (mwalker.interlog.com [199.212.152.131]) by gold.interlog.com (8.6.10/8.6.10) with SMTP id IAA12271 for <aprssig@tapir.org>; Thu, 14 Dec 1995 08:45:51 -0500

Message-Id: <199512141345.IAA12271@gold.interlog.com>

Date: Wed, 13 Dec 95 20:45:46 EST

From: mwalker@interlog.com (Mike Walker)

Reply-To: mwalker@interlog.com (Mike Walker)

To: aprssig@tapir.org

X-Mailer: Mike Walker's PMMail v1.1

Subject: METEOR SCATTER

Hi All,

I ran all night from FM03 on 50.620 and didn't hear a thing beaming at 225.

I suspect the snow and freezing rain didn't help.

cheers..mike

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

From james.mollica@compudata.com Thu Dec 14 08:19:22 1995

Received: from mailman.compudata.com (root@mailman.compudata.com [204.183.163.2]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id IAA10047 for <APRSSIG@TAPR.ORG>; Thu,

14 Dec 1995 08:19:19 -0600 (CST)
Received: from compudat.UUCP (uucp@localhost) by mailman.compudata.com
(8.6.12/8.6.11) with UUCP id JAA28172 for APRSSIG@TAPR.ORG; Thu, 14 Dec 1995
09:23:50 -0500
To: APRSSIG@tapr.org
Subject: RE: METEOR SCATTER TONIGHT!
From: james.mollica@compudata.com (JAMES MOLLICA)
Message-ID: <8B6E1FD.01F4015A84.uuout@compudata.com>
Date: Thu, 14 Dec 95 08:29:00 -0400
Organization: Compu-Data BBS ==- Turnersville, NJ ==- 609-232-1245
Reply-To: james.mollica@compudata.com (JAMES MOLLICA)
References: <Pine.SUN.3.91.951213190248.20591A-100000@greatlakes>
X-Mailreader: PCBoard Version 15.22
X-Mailer: PCBoard/UUOUT Version 1.20

BB>In case you forgot, tonight's the big night for the 2 meter and 6 meter
>USA nationwide Meteor Scatter PACKET test. See details in Dec
>QST. For all APRS stations, starting at 0000 UTC 2000 EST

Setup APRS on 145.790 last night before going to work at abt 10:00.
K4ZQX EM75IC: ^34 in the log and on the map at 11:57pm local time.
He was beaming 30 deg. with 160w.

Location here is Williamstown N.J. FM29
If anyone copied my call via APRS MS please let me know.
Beaming 260 deg. with 170w into KLM 22C.

PS 790 is totally crowded here in the Philly to New York area
with stations using wide,wide,wide etc. Guess its time to
give 6m a try.

73 es Seasons Greetings, Jim N2NRD.

* 1st 2.00 #1439 * N2NRD @ AMSAT.ORG

From barrettd@crpl.cedar-rapids.lib.ia.us Thu Dec 14 08:23:43 1995
Received: from CRPL.CEDAR-RAPIDS.LIB.IA.US (crpl.cedar-rapids.lib.ia.us
[198.134.138.1]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id IAA10126 for
<aprssig@tapr.org>; Thu, 14 Dec 1995 08:23:41 -0600 (CST)
From: barrettd@crpl.cedar-rapids.lib.ia.us
Message-Id: <199512141423.IAA10126@sys1.tapr.org>
Received: from ppp-102.cedar-rapids.lib.ia.us by CRPL.CEDAR-RAPIDS.LIB.IA.US with
SMTP;
Thu, 14 Dec 1995 7:27:43 -0600 (CST)
X-Sender: barrettd@crpl.cedar-rapids.lib.ia.us
X-Mailer: Windows Eudora Light Version 1.5.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Thu, 14 Dec 1995 07:28:52 -0600
To: aprssig@tapr.org
Subject: APRS74E and PICO

Bob,

I didn't see anything in the new notes readme file about the pico paket mode. I having it working like I did in earlier APRS versions by setting ELO to on which echo's the Pico's GPS port2 to port1 which the tnc is on. I also set LOC E 3 so it echos the gps string every 30 seconds even though APRS will only send it at the APRS position rate I set.

Now my question what the heck does defining PICO, when setting up 7.4e, do exactly? I read a sig message that said PICO mode would request the GPS posit over the serial port to the TNC.

I've found the only way to make the picopaket work is to do the steps I outlined above. Not griping just trying to clarify things for myself and others. The pico has been just fine with 7.4b to 7.4e

Also are there any tips on using the Ultimiter 2000 with APRS I should know about? I have one on the way and should be in by Friday.

On another note to anyone that knows. What's the deal with texnet, Nexrad radar sites and packet. I grabbed the RMC decoder and I see a .79 site in Davenport, IA that becons on APRS as NEXRAD.

Can I connect to it and grab an RMC? Will APRS one day decode RMS text when one does OPS, Query, NEXRAD [next feature Bob? :-)]

Sorry about all the gabbing I'll sling back to lurk mode now.

PS That was my brother NM0B and I driving around illinois and Iowa last week. Sure like all the Chicago, Rockford Digi's and WX along the way.

barrettd

From Wb2ngz@aol.com Thu Dec 14 09:45:32 1995

Received: from emout05.mail.aol.com (emout05.mail.aol.com [198.81.10.37]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id JAA14232 for <aprssig@tapir.org>; Thu, 14 Dec 1995 09:45:30 -0600 (CST)

From: Wb2ngz@aol.com

Received: by emout05.mail.aol.com (8.6.12/8.6.12) id KAA24490 for aprssig@tapir.org; Thu, 14 Dec 1995 10:44:58 -0500

Date: Thu, 14 Dec 1995 10:44:58 -0500

Message-ID: <951214104456_90054260@emout05.mail.aol.com>

To: aprssig@tapir.org

Subject: METEOR SCATTER

From 140400Z thru 141400Z I left my APRS station online here in Daytona Beach, Florida on 145.790 MHz looking for meteor scatter reports. The following data was recorded on my "V" screen:

KF0ZH>APRS,GATE*,WIDE/V:@141518z4447.06N/09329.48W_202/000/T025/R000/P000/U-II

Callbook research revealed Scott D. Lebens, KF0ZH, 1261 Limestoone Drive, Skakopee, Minnesota, 55379.

Looks like meteor scatter to me!

Bob, WB2NGZ

From dwetzel@acs.uswest.com Thu Dec 14 09:50:56 1995
Received: from uswat.advtech.uswest.com (uswat.advtech.uswest.com [130.13.16.1])
by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id JAA14755 for <aprssig@tapir.org>; Thu,
14 Dec 1995 09:50:53 -0600 (CST)
From: dwetzel@acs.uswest.com
Received: from easthub ([151.117.26.86]) by uswat.advtech.uswest.com (8.7.1/8.7.1)
with SMTP id IAA17353 for <aprssig@tapir.org>; Thu, 14 Dec 1995 08:50:50 -0700
(MST)
Received: by easthub.mnet.uswest.com (M-Net Hub.950111)
Received: from acmspgw1.mnet.uswest.com by acs.uswest.com (5.x/SMI-SVR4)
id AA28745; Thu, 14 Dec 1995 09:50:47 -0600
Received: from ccMail by acmspgw1.mnet.uswest.com
(IMA Internet Exchange 1.04b beta) id 0d03e330; Thu, 14 Dec 95 09:09:39 -0600
Mime-Version: 1.0
Date: Thu, 14 Dec 1995 08:52:47 -0600
Message-Id: <0d03e330@acmspgw1.mnet.uswest.com>
Subject: Re: [APRSSIG:5155] RE: METEOR SCATTER TONIGHT!
To: aprssig@tapir.org
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Description: cc:Mail note part

Meteor Scatter info:

(Although I don't really expect anyone to see me!)

145.79
10 Watts
Omni - 5 db gain

KC7CO-1

Sandy Utah.

From sford@arrl.org Thu Dec 14 10:13:17 1995
Received: from gate3.gdc.com (gate3.gdc.com [199.98.150.5]) by sys1.tapir.org
(8.7.2/8.7.2) with SMTP id KAA15704 for <aprssig@tapir.org>; Thu, 14 Dec 1995
10:13:14 -0600 (CST)
Received: from mailhost.gdc.com (esun19.gdc.com) by gate3.gdc.com with SMTP id
AA18462
(5.67b/IDA-1.5 for <aprssig@tapir.org>); Thu, 14 Dec 1995 11:13:07 -0500
Received: from esun45.gdc.com by mailhost.gdc.com (4.1/GDC-eInternal/D-) via SMTP
id AA10603; Thu, 14 Dec 95 11:13:06 EST
From: horzepa@gdc.com (Stan Horzepa)
Message-Id: <9512141613.AA10603@mailhost.gdc.com>
Subject: Copy of bulletin . . . (fwd)
To: aprssig@tapir.org
Date: Thu, 14 Dec 1995 11:13:03 -0500 (EST)
X-Mailer: ELM [version 2.4 PL20]
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII

Content-Transfer-Encoding: 7bit

Forwarded message:

>From @evax5.gdc.com:sford@arrl.org Thu Dec 14 10:47:57 1995

Message-Id: <9512141547.AA07516@mailhost.gdc.com>

Date: 14 Dec 95 10:46:00 EST

From: sford@arrl.org

Subject: Copy of bulletin . . .

To: "HORZEPA" <HORZEPA@esun19.gdc.com>

Return-Path: <sford@arrl.org>

Received: from gdc.com by evax5.gdc.com with SMTP ; Thu, 14 Dec 95 10:46:51 EST

Received: from mgate.arrl.org by gdc.com (4.1/GDC-eGateway/D-) via SMTP

id AA16454; Thu, 14 Dec 95 10:46:17 EST

Received: from arrl.org by mgate.arrl.org with smtp

(Smail3.1.29.1 #3) id m0tQFmf-000RBBC; Thu, 14 Dec 95 10:41 EST

Received: by arrl.org with Microsoft Mail

id <30D04760@arrl.org>; Thu, 14 Dec 95 10:48:48 EST

From: "Ford, Steve, WB8IMY" <sford@arrl.org>

To: Bob Bruninga <bruninga@nadn.navy.mil>,

"Horzepa, Stan, WA1LOU" <horzepa@evax.gdc.com>,

Emil Pocock <POCOCK@ECSUC.CTSTATEU.EDU>

Subject: Copy of bulletin . . .

Date: Thu, 14 Dec 95 10:50:00 EST

Message-Id: <30D04760@arrl.org>

Encoding: 13 TEXT

X-Mailer: Microsoft Mail V3.0

This is a copy of a message bulletin posted to the AMSAT BBS and
elsewhere this morning . . .

W1AW is participating in the Geminid meteor scatter APRS
test. As of 1600 UTC today, we are monitoring 145.79 MHz,
beaming southwest at a heading of 225 degrees. We'll remain
on frequency through about 1300 UTC December 15.

Hope to hear your "pings!"

73 . . . Steve, WB8IMY

ARRL

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| | | | |
|----------------------------------|---|----------------------|--------------------|
| Stan Horzepa | ~ | phone: | 203-758-1811 x7369 |
| Technical Writing Supervisor | ~ | email: | horzepa@gdc.com |
| General DataComm (MODEMS 'R' US) | ~ | radio: | WA1LOU |
| P. O. Box 1299 | ~ | packet radio mail: | WA1LOU@N4GAA |
| Middlebury, CT 06762-1299 | ~ | TCP/IP packet radio: | 44.88.4.8 |

~~~~~ What! - Me Worry? ~~~~~

From bruninga@nadm.navy.mil Thu Dec 14 11:10:45 1995  
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])  
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id LAA17970 for <aprssig@tapir.org>; Thu,  
14 Dec 1995 11:10:43 -0600 (CST)  
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id  
MAA01880; Thu, 14 Dec 1995 12:11:08 -0500  
Date: Thu, 14 Dec 1995 12:11:07 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
To: aprssig@tapir.org  
Subject: Re: [APRSSIG:5156] APRS74E and PICO  
In-Reply-To: <199512141423.IAA10126@sys1.tapir.org>  
Message-ID: <Pine.SUN.3.91.951214120012.1704B-100000@greatlakes>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 14 Dec 1995 barrettd@crpl.cedar-rapids.lib.ia.us wrote:

> I didn't see anything in the new notes readme file about the pico  
> paket mode. I having it working like I did in earlier APRS versions by  
> setting ELO to on which echo's the Pico's GPS port2 to port1 which the tnc  
> is on. I also set LOC E 3 so it echos the gps string every 30 seconds even  
> though APRS will only send it at the APRS position rate I set.  
> Now my question what the heck does defining PICO, when setting up  
> 7.4e, do exactly? I read a sig message that said PICO mode would request the

APR REPLY: OOPS I left it out. As you have configured your PICO, it is  
sending its data OUT THE RADIO at the rate you established in the PICO  
and also echoing that to APRS. That works, but it does not give you nor  
APRS control over your position reporting. It also duplicates the  
on-air packets since both the TNC and APRS are sending posits. In this mode  
you are operating in the APRS "SPM" mode.

We worked with PacComm to define another way for it to work in HSP mode  
where APRS has control over the positions. You tell APRS you have a  
PICO. Then when you set GPS-HSP mode, APRS will send out a Ctrl-E each  
time it toggles the HSP switch. This tells the PICO to send APRS a  
position report (and to reset its POSIT TIMER).

ADVANTAGES: 1) APRS is controlling the position timing.  
a) You can force a posit at ANY TIME with the F8 key  
b) APRS will decay reporting period when you are NOT moving  
2) When the APRS is turned off, or laptop is removed from  
the vehicle, then the POSIT becons continue, since APRS  
is no longer periodically toggling the ^E which had been  
resetting the internal beacon timer.

-----  
|DE WB4APR in Annapolis MD.|  
-----

From jkerns@usit.net Thu Dec 14 11:34:04 1995  
Received: from use.usit.net (use.usit.net [199.1.48.3]) by sys1.tapir.org  
(8.7.2/8.7.2) with SMTP id LAA18876 for <aprssig@tapir.org>; Thu, 14 Dec 1995

11:34:01 -0600 (CST)  
Received: from bway-slip81.dynamic.usit.net (bway-slip81.dynamic.usit.net [204.194.172.127]) by use.usit.net (8.6.10/8.6.9) with SMTP id MAA27751 for <aprssig@tapr.org>; Thu, 14 Dec 1995 12:36:15 -0500  
Message-Id: <199512141736.MAA27751@use.usit.net>  
X-Sender: jkerns@usit.net (Unverified)  
X-Mailer: Windows Eudora Version 1.4.4  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 14 Dec 1995 00:31:11 -0500  
To: aprssig@tapr.org  
From: jkerns@usit.net (jim kerns)  
Subject: Grabber.exe

Hello Sig Group;  
I have a question. I downloaded off the sig group the Grabber program to grab screens.

I have loaded grabber on occassions and also at other times grpcx. Both seem to grab the aprs screen and save it but I have never been able to save the screen I'm on.

I always use cntrl alt F1 to grab the screen when loaded grpcx. But I always get the logo screen of APRS, once I got the Beacon Screen, I have never been able to grab the screen I'm on, which is the map with calls showing on it.

Anyone know whats wrong, me or the program???? Thanks for any help

Jim, N4PUQ  
Way south of the Greatlakes in Tn.

From ALS@CEIS.UHCOLORADO.EDU Thu Dec 14 12:40:02 1995  
Received: from essex.UCHSC.edu (essex.UCHSC.EDU [140.226.1.11]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id MAA21692 for <aprssig@tapr.org>; Thu, 14 Dec 1995 12:39:57 -0600 (CST)  
Received: from ceis.uhcolorado.edu ([168.200.21.67]) by essex.UCHSC.edu (8.6.12/8.6.9) with ESMTP id LAA01734 for <aprssig@tapr.org>; Thu, 14 Dec 1995 11:45:22 -0700  
Received: from CEIS/MAILQUEUE by ceis.uhcolorado.edu (Mercury 1.21); 14 Dec 95 11:40:41 +0700  
Received: from MAILQUEUE by CEIS (Mercury 1.21); 14 Dec 95 11:40:11 +0700  
From: "Art Smith" <ALS@CEIS.UHCOLORADO.EDU>  
Organization: UH Clinical Engineering Info System  
To: aprssig@tapr.org  
Date: Thu, 14 Dec 1995 11:40:09 MST-0700  
Subject: Re: [APRSSIG:5158] RE: METEOR SCATTER TONIGHT!  
Reply-to: als@ceis.HSC.Colorado.edu  
Priority: normal  
X-mailer: Pegasus Mail/Windows (v1.11a)  
Message-ID: <185673223F2@ceis.uhcolorado.edu>

KB1TX - in zero land, Aurora CO

N3943.940, W10456.396, 5 watts, 3db Omni  
200 feet above average terrain at about 5656 feet

I doubt you will hear me, but what the heck!

NOTE:

Apparently I am the only station "up" on APRS on 5.79 at this time in the metro Denver area. No "wides". I am "relay" and I "UNPROTO" digi through W0TX. System is on except when wife (N1DUZ) is using computer for non Ham software. So far I have not been able to keep APRS running reliably in foreground or background in Windows 3.1 on the home office P5 system. As soon as I fix a radio - TNC cable the APRS will be up permanently on a second computer and an old ICOM running 10 watts into a "venttenna" on a plumbing vent on the top of the roof. No outside antennas allowed in the tract so "stealth" is in order.

Art Smith

Facilities Engineer, Engineering Services  
University Hospital, Denver, Colorado, USA  
Voice - (303)270-3757 FAX - (303)270-4710  
als@ceis.uhcolorado.edu

From w5rkn@amsat.org Thu Dec 14 12:42:43 1995

Received: from zoom.bga.com (root@zoom.bga.com [198.3.118.20]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id MAA21761 for <aprssig@tapir.org>; Thu, 14 Dec 1995 12:42:41 -0600 (CST)

Received: from [204.181.160.93] (maria-7m.ip.realtime.net [204.181.160.93]) by zoom.bga.com (8.6.12/8.6.10) with SMTP id MAA18051 for <aprssig@tapir.org>; Thu, 14 Dec 1995 12:42:35 -0600

X-Sender: rparsons@bga.com

Message-Id: <v02130500acf62007e3d9@[204.181.160.31]>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Date: Thu, 14 Dec 1995 12:42:33 -0600

To: aprssig@tapir.org

From: w5rkn@amsat.org (Ronald G. Parsons)

Subject: Re: [APRSSIG:5161] Grabber.exe

>

>Hello Sig Group;

>I have a question. I downloaded off the sig group the Grabber program to  
>grab screens.

>

>I have loaded grabber on occassions and also at other times grpcx. Both  
>seem to grab

>the aprs screen and save it but I have never been able to save the screen  
>I'm on.

>I always use cntrl alt F1 to grab the screen when loaded grpcx. But I  
>always get the logo screen of APRS, once I got the Beacon Screen, I have  
>never been able to grab the screen I'm on, which is the map with calls  
>showing on it.

>Anyone know whats wrong, me or the program???? Thanks for any help

>  
>Jim, N4PUQ  
>Way south of the Greatlakes in Tn.

Exactly the same thing happens to me. Had the map displayed, "grabbed" a PCX, and it was the APRtrak sign-on screen.

Ron W5RKN

also:  
rparsons@bga.com

From jwyatt@lineng.ipc.amex-trs.com Thu Dec 14 12:51:44 1995  
Received: from gw.aexp.com (gw.aexp.com [205.138.230.66]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id MAA22307 for <aprssig@tapr.org>; Thu, 14 Dec 1995 12:51:36 -0600 (CST)  
Received: by gw.aexp.com (AIX 3.2/UCB 5.64/4.03) id AA17887; Thu, 14 Dec 1995 11:48:40 -0700  
Received: from mailhub1.ec.aexp.com(148.171.184.1) by gw.aexp.com via smap (V1.3) id sma022492; Thu Dec 14 11:48:40 1995  
Received: from amexdns.amex-trs.com by mailhub1.ec.aexp.com; Thu, 14 Dec 95 11:53:16 -0700  
Received: from lineng.ipc.amex-trs.com by amexdns.amex-trs.com (AIX 3.2/UCB 5.64/4.03) id AA194836; Thu, 14 Dec 1995 11:50:00 -0700  
Received: from localhost by lineng.ipc.amex-trs.com (AIX 3.2/UCB 5.64/4.03) id AA51356; Thu, 14 Dec 1995 11:45:57 -0700  
Message-Id: <9512141845.AA51356@lineng.ipc.amex-trs.com>  
Date: Thu, 14 Dec 95 11:45:57 -0700  
Sender: jwyatt@lineng.ipc.amex-trs.com  
From: Jerry Wyatt <jwyatt@lineng.ipc.amex-trs.com>  
Organization: American Express TRS Technologies SIP SDN  
X-Mailer: Mozilla 1.1N (X11; I; AIX 2)  
Mime-Version: 1.0  
To: aprssig@tapr.org  
Subject: Dropped from APRSSIG  
X-Url: <http://www.intellicast.com/weather/phx/bref1.gif>  
Content-Transfer-Encoding: 7bit  
Content-Type: text/plain; charset=us-ascii

Seems I got dropped from the APRS SIG.

Can someone remind me how to 'subscribe' again!

Later  
\*jw\*

From jleonard@tbcnet.com Thu Dec 14 13:04:32 1995  
Received: from tbc2.tbcnet.com (root@tbc2.tbcnet.com [205.199.1.5]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id NAA22767 for <aprssig@tapr.org>; Thu, 14

Dec 1995 13:04:27 -0600 (CST)  
Received: from jbleonard.tbcnet.com (jbleonard.tbcnet.com [205.199.1.129]) by  
tbc2.tbcnet.com (8.6.12/8.6.12) with SMTP id NAA06597 for <aprssig@tapr.org>; Thu,  
14 Dec 1995 13:04:34 -0600  
Date: Thu, 14 Dec 1995 13:04:34 -0600  
Message-Id: <199512141904.NAA06597@tbc2.tbcnet.com>  
X-Sender: jleonard@tbcnet.com  
X-Mailer: Windows Eudora Version 1.4.4  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: aprssig@tapr.org  
From: jleonard@tbcnet.com (John B. Leonard)  
Subject: still no answer

Dan, I'm still getting no answer about 1/2 the time I try to access the  
754-4400 no.

jbl  
J Barry Leonard HamRadio N9VJQ/EN510W  
Subependymoma 1990  
DeKalb IL  
E-MAIL: jleonard@tbcnet.com

From bruninga@nadm.navy.mil Thu Dec 14 13:08:42 1995  
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])  
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id NAA22837 for <aprssig@tapr.org>; Thu,  
14 Dec 1995 13:08:38 -0600 (CST)  
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id  
OAA04759; Thu, 14 Dec 1995 14:09:01 -0500  
Date: Thu, 14 Dec 1995 14:08:57 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
To: aprssig@tapr.org  
Subject: Re: [APRSSIG:5161] Grabber.exe  
In-Reply-To: <199512141736.MAA27751@use.usit.net>  
Message-ID: <Pine.SUN.3.91.951214140356.4239A-100000@greatlakes>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 14 Dec 1995, jim kerns wrote:

>  
> I have loaded grabber on occassions and also at other times grpcx. Both  
> I always use cntrl alt F1 to grab the screen when loaded grpcx. But I  
> always get the logo screen of APRS, once I got the Beacon Screen, I have  
> never been able to grab the screen I'm on, which is the map with calls

APR REPLY: APRS uses dual screens. It uses the the default screen for  
all text and uses the alternate screen for the map.

To save an APRS screen, simply run APRS from windows, press the PRINT-SCREEN  
KEY and then exit APRS. When you bring up PAINTBRUSH, you will find the  
APRS screen on your clipboard. Load it and have fun!

-----  
|DE WB4APR in Annapolis MD.|  
-----

From james.mollica@compudata.com Thu Dec 14 13:09:08 1995  
Received: from mailman.compudata.com (root@mailman.compudata.com [204.183.163.2])  
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id NAA22867 for <aprssig@tapr.org>; Thu,  
14 Dec 1995 13:09:05 -0600 (CST)  
Received: from compudat.UUCP (uucp@localhost) by mailman.compudata.com  
(8.6.12/8.6.11) with UUCP id OAA30116 for aprssig@tapr.org; Thu, 14 Dec 1995  
14:12:55 -0500  
To: aprssig@tapr.org  
Subject: METEOR SCATTER 2  
From: james.mollica@compudata.com (JAMES MOLLICA)  
Message-ID: <8B6E31F.01F4015BFA.uuout@compudata.com>  
Date: Thu, 14 Dec 95 13:19:00 -0400  
Organization: Compu-Data BBS ==- Turnersville, NJ ==- 609-232-1245  
Reply-To: james.mollica@compudata.com (JAMES MOLLICA)  
X-Mailreader: PCBoard Version 15.22  
X-Mailer: PCBoard/UUOUT Version 1.20

Stations copied on 145.790 via MS into FM29 South Jersey.

DEC.14  
0457Z K4ZQX EM75IC:^34  
1437Z KC8ER EN91IQ:^01

FTP MSSOF42F.ZIP from ftp.funet.fi in the pub/ham/vhf-work dir.  
Log in as anonymous and use your email address as the password.

Excellent for MS work. The az/el beam heading charts alone  
are worth the download!

73 es gl, Jim N2NRD.

\* 1st 2.00 #1439 \* N2NRD @ AMSAT.ORG

From wricharz@ix.netcom.com Thu Dec 14 13:42:08 1995  
Received: from ix2.ix.netcom.com (ix2.ix.netcom.com [199.182.120.1]) by  
sys1.tapr.org (8.7.2/8.7.2) with SMTP id NAA24283 for <aprssig@tapr.org>; Thu, 14  
Dec 1995 13:41:55 -0600 (CST)  
Received: from ix-cha-nc1-05.ix.netcom.com by ix2.ix.netcom.com (8.6.12/SMI-4.1/  
Netcom)  
id LAA16512; Thu, 14 Dec 1995 11:41:53 -0800  
Message-Id: <199512141941.LAA16512@ix2.ix.netcom.com>  
X-Sender: wricharz@ix.netcom.com  
X-Mailer: Windows Eudora Light Version 1.5.2  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 14 Dec 1995 14:41:15 -0500



To: aprssig@tapr.org  
From: William Richarz <wricharz@ix.netcom.com>  
Subject: Re: [APRSSIG:5163] Re: Grabber.exe

At 12:51 PM 12/14/95 -0600, you wrote:

>>  
>>Hello Sig Group;  
>>I have a question. I downloaded off the sig group the Grabber program to  
>>grab screens.  
>>  
>>I have loaded grabber on occasions and also at other times grpcx. Both  
>>seem to grab  
>>the aprs screen and save it but I have never been able to save the screen  
>>I'm on.  
>>I always use cntrl alt F1 to grab the screen when loaded grpcx. But I  
>>always get the logo screen of APRS, once I got the Beacon Screen, I have  
>>never been able to grab the screen I'm on, which is the map with calls  
>>showing on it.  
>>Anyone know whats wrong, me or the program???? Thanks for any help  
>>  
>>Jim, N4PUQ  
>>Way south of the Greatlakes in Tn.  
>  
>Exactly the same thing happens to me. Had the map displayed, "grabbed" a  
>PCX, and it was the APRtrak sign-on screen.  
>  
>  
>Ron W5RKN

Hmmmmh, works for me, but I used the suggested HOTKEY <Control=>, and it  
grabs the screen I want with no problem.

Bill Richarz <WA4VAF>  
wricharz@ix.netcom.com

From w2icz@buffnet.net Thu Dec 14 14:26:58 1995  
Received: from buffnet1.buffnet.net (mmdf@buffnet1.buffnet.net [205.246.19.10]) by  
sys1.tapr.org (8.7.2/8.7.2) with SMTP id OAA26956 for <aprssig@tapr.org>; Thu, 14  
Dec 1995 14:26:56 -0600 (CST)  
Date: Thu, 14 Dec 1995 14:26:56 -0600 (CST)  
Received: from buffnet3.buffnet.net by buffnet1.buffnet.net id aa24556;  
14 Dec 95 15:28 EST  
X-Sender: w2icz@buffnet.net (Unverified)  
X-Mailer: Windows Eudora Version 1.4.4  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: aprssig@tapr.org  
From: "Syd F.Chiswell" <w2icz@buffnet.net>  
Subject: Re: MScatt REPORTS  
Message-ID: <9512141528.aa24556@buffnet1.buffnet.net>

My grid FN02XA  
K4ZQX EM75IC

@ 12:42 utc  
2 pkts EM75IC: ^34

From jerdptro@xnet.com Thu Dec 14 14:46:17 1995  
Received: from flood.xnet.com (flood.xnet.com [198.147.221.35]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id OAA28085 for <aprssig@tapir.org>; Thu, 14 Dec 1995 14:46:15 -0600 (CST)  
Received: from n9vhw.xnet.com by flood.xnet.com (8.7/XNet-1.4R) with SMTP id OAA11793 for <aprssig@tapir.org>; Thu, 14 Dec 1995 14:39:32 -0600 (CST)  
Message-Id: <199512142039.OAA11793@flood.xnet.com>  
Comments: Authenticated sender is <jerdptro@quake.xnet.com>  
From: "Jerry" <jerdptro@xnet.com>  
To: aprssig@tapir.org  
Date: Thu, 14 Dec 1995 14:46:08 +0000  
Subject: Re: [APRSSIG:5157] METEOR SCATTER  
Reply-to: jerdptro@xnet.com  
Priority: normal  
X-mailer: Pegasus Mail for Windows (v2.20)

I believe you copied a gate.....

Jerry  
N9VHW  
Jerry Di Pietro  
N9VHW  
Streamwood, IL  
jerdptro@xnet.com

From ke4eer@ro.com Thu Dec 14 15:05:13 1995  
Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id PAA29280 for <aprssig@tapir.org>; Thu, 14 Dec 1995 15:05:11 -0600 (CST)  
Received: from ts1p17.ro.com (ts1p17.ro.com [205.216.92.37]) by sh1.ro.com (8.6.9/8.6.9) with SMTP id QAA04039 for <aprssig@tapir.org>; Thu, 14 Dec 1995 16:13:39 -0600  
Message-Id: <199512142213.QAA04039@sh1.ro.com>  
X-Mailer: InternetWorks Mail and News 1.1  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 14 Dec 1995 15:04:35  
From: ke4eer@ro.com (William Nolle)  
To: aprssig@tapir.org  
Subject: GRABBER

Those that downloaded the Grabber software please read the doc's that came with the software. It's really a very easy to use program and i don't want to spend too much time taking up APRS SIG bandwidth to get into this program since it's only indirectly related to APRS. DON'T try to run anything other than the Grabber program, capture the screen THEN CONVERT it to another format.

Bill KE4EER  
ke4eer@ro.com

From n2czf@gate.net Thu Dec 14 15:07:34 1995  
Received: from osceola.gate.net (osceola.gate.net [199.227.0.18]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id PAA29401 for <aprssig@tapr.org>; Thu, 14 Dec 1995 15:07:26 -0600 (CST)  
From: n2czf@gate.net  
Received: from 199.227.125.148 (wpbfl2-20.gate.net [199.227.125.148]) by osceola.gate.net (8.6.12/8.6.9) with SMTP id QAA29284 for <aprssig@tapr.org>; Thu, 14 Dec 1995 16:08:29 -0500  
Date: Thu, 14 Dec 1995 16:08:29 -0500  
Message-Id: <199512142108.QAA29284@osceola.gate.net>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
Subject: Re: [APRSSIG:5149] Track history LOG  
To: aprssig@tapr.org  
In-Reply-To: <Pine.SUN.3.91.951213234626.21310D-1000000@greatlakes>  
X-Mailer: SPRY Mail Version: 04.00.06.17

Me too!! in version 7.4b

73's De Rich N2CZF  
n2czf@gate.net  
Jupiter Farms Florida

From EAJAMES@sandia.gov Thu Dec 14 15:19:23 1995  
Received: from sass165.sandia.gov (sass165.sandia.gov [132.175.109.1]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id PAA00195 for <aprssig@tapr.org>; Thu, 14 Dec 1995 15:19:20 -0600 (CST)  
Received: from sahp356.sandia.gov (sahp356.sandia.gov [134.253.181.7]) by sass165.sandia.gov (8.6.12/8.6.12) with SMTP id OAA09191 for <aprssig@tapr.org>; Thu, 14 Dec 1995 14:19:30 -0700  
X400-Received: by /c=US/admd=/prmd=USD0E/; converted ( IA5-Text); Relayed; 14 Dec 1995 14:18:05 -0700  
X400-Received: by mta mtaSNL in /c=US/admd=/prmd=USD0E/; converted ( IA5-Text); Relayed; 14 Dec 1995 14:18:05 -0700  
X400-MTS-Identifier: [/c=US/admd=/prmd=USD0E/; 03DC430D0948D006-mtaSNL]  
Content-Identifier: 03DC430D0948D006  
Content-Return: Allowed  
X400-Content-Type: P2-1988 ( 22 )  
Conversion: Allowed  
Original-Encoded-Information-Types: IA5-Text  
Priority: normal  
Disclose-Recipients: Prohibited  
Alternate-Recipient: Allowed  
X400-Originator: EAJAMES@sandia.gov  
X400-Recipients: non-disclosure;  
Message-Id:  
<"03DC430D0948D006\*/c=US/admd= /prmd=USD0E/o=SNL/ou=msmail/s=EAJAMES/"@MHS>  
Date: 14 Dec 1995 14:18:05 -0700  
From: "James, Edward A 2161 M" <EAJAMES@sandia.gov>

To: "aprssig@tapr.org" <aprssig@tapr.org> (Return requested)  
Subject: Meteor scatter test  
MIME-Version: 1.0

KA8JMW in Albuquerque NM  
160W with 15db gain antenna  
good luck  
Ed

From 102256.1216@compuserve.com Thu Dec 14 18:17:45 1995  
Received: from dub-img-4.compuserve.com (dub-img-4.compuserve.com [198.4.9.4]) by  
sys1.tapr.org (8.7.2/8.7.2) with SMTP id SAA10042 for <aprssig@tapr.org>; Thu, 14  
Dec 1995 18:17:42 -0600 (CST)  
Received: by dub-img-4.compuserve.com (8.6.10/5.950515)  
id TAA07937; Thu, 14 Dec 1995 19:17:10 -0500  
Date: 14 Dec 95 19:15:51 EST  
From: Doug Woodruff <102256.1216@compuserve.com>  
To: TAPR E-mail Forum <aprssig@tapr.org>  
Subject: Ltrack Lines from KPC-3  
Message-ID: <951215001551\_102256.1216\_BHB27-2@CompuServe.COM>

Bob,

How do I configure the downloaded "Ltrack" lines from my KPC-3 so that  
APRS will put a symbol on the screen and plot their progression when playing the  
file as a track history? Have tried several ways but not successful yet.

The data is there but APRS doesn't want to plot any symbol for the  
positions. I have tried my callsign with a "-9" to make a car but seem to be  
missing an intermediate character somewhere. What is the formate which must  
precede the coordinates for APRS to plot a symbol on the map?

Thanks,

Doug, KM4HY

From 102256.1216@compuserve.com Thu Dec 14 18:17:45 1995  
Received: from dub-img-4.compuserve.com (dub-img-4.compuserve.com [198.4.9.4]) by  
sys1.tapr.org (8.7.2/8.7.2) with SMTP id SAA10043 for <aprssig@tapr.org>; Thu, 14  
Dec 1995 18:17:42 -0600 (CST)  
Received: by dub-img-4.compuserve.com (8.6.10/5.950515)  
id TAA07933; Thu, 14 Dec 1995 19:17:10 -0500  
Date: 14 Dec 95 19:15:50 EST  
From: Doug Woodruff <102256.1216@compuserve.com>  
To: TAPR E-mail Forum <aprssig@tapr.org>  
Subject: Eagle AccuNav Sport GPS Receiver  
Message-ID: <951215001549\_102256.1216\_BHB27-1@CompuServe.COM>

Just a quick note to mention a GPS unit which has not gotten any press  
here on the SIG.

I have used a Eagle AccuNav Sport (\$384.00 from Bass Pro Shops) for the  
past month. This unit uses a Rockwell five-parallel-channel engine which is

extremely fast and more stable than the single-channel sampling Garmins. I use the unit from inside the car (the antenna on the dash) and have not had problems losing lock in heavy rain, going under overpasses or through forested areas. It is plug-n-play with a KPC-3 (the \$18 interface cable terminates in bare wires so you have to put an appropriate connector on), needs no initialization strings to commence sending NMEA-0183 data and will operate on any DC voltage from 6-35 VDC.

The unit is somewhat larger than the Garmin but seems to operate more reliably than the Garmin and is more sensitive. The antenna is connected with a two-point hinge and can be removed to accommodate a remote mounting kit (\$22). This eliminates the problems the Garmins have with the weak antenna connector loosening and causing intermittent contacts.

It will, of course, accomodate a differential receiver. Actually, it will accomodate two different types of differential receivers.

The unit outputs GLL and RMC data which APRS decodes but also outputs three other strings, including the one used for auto-pilot steering of boats.

In short, I am a very impressed and proud owner!

FYI,  
Doug, KM4HY

From kheyboer@pinegov.co.pinellas.fl.us Thu Dec 14 18:29:38 1995  
Received: from pinegov (pinegov.co.pinellas.fl.us [136.174.202.1]) by  
sys1.tapir.org (8.7.2/8.7.2) with SMTP id SAA10685 for <aprssig@tapir.org>; Thu, 14  
Dec 1995 18:29:35 -0600 (CST)  
Received: by pinegov (5.0/SMI-SVR4)  
id AA08636; Fri, 15 Dec 1995 00:27:39 +0000  
Errors-To: root@pinegov.co.pinellas.fl.us  
Date: Fri, 15 Dec 1995 00:27:39 +0000 (EST)  
From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>  
To: aprssig@tapir.org  
Subject: Re: [APRSSIG:5157] METEOR SCATTER  
In-Reply-To: <951214104456\_90054260@emout05.mail.aol.com>  
Message-Id: <Pine.SUN.3.91.951215002403.8598A-1000000@pinegov>  
Mime-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 14 Dec 1995 Wb2ngz@aol.com wrote:

> From 140400Z thru 141400Z I left my APRS station online here in Daytona  
> Beach, Florida on 145.790 MHz looking for meteor scatter reports. The  
> following data was recorded on my "V" screen:  
>  
> KF0ZH>APRS,GATE\*,WIDE/V:@141518z4447.06N/09329.48W\_202/000/T025/R000/P000/U-II  
>  
>  
> Callbook research revealed Scott D. Lebens, KF0ZH, 1261 Limestoone Drive,

> Skakopee, Minnesota, 55379.  
> Looks like meteor scatter to me!  
>  
> Bob, WB2NGZ  
>  
>

I hate to burst your bubble Bob, but the above line was clearly received via tropo skip from the nearest GATE, probably in Orlando but possibly WB9OML in Lakeland, or even me in St. Pete. KF0ZH is a regular HF WX station and the \* after GATE indicates the origin transmitter to you.

An MSCAT signal will consist only of a callsign and grid square.

73 and get a wide up so we can connect across the state!

Kevin KD4UYR

From Wb2ngz@aol.com Thu Dec 14 18:40:14 1995  
Received: from emout06.mail.aol.com (emout06.mail.aol.com [198.81.10.43]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id SAA11232 for <aprssig@tapir.org>; Thu, 14 Dec 1995 18:39:43 -0600 (CST)  
From: Wb2ngz@aol.com  
Received: by emout06.mail.aol.com (8.6.12/8.6.12) id TAA10370 for aprssig@tapir.org; Thu, 14 Dec 1995 19:39:11 -0500  
Date: Thu, 14 Dec 1995 19:39:11 -0500  
Message-ID: <951214193909\_90508060@emout06.mail.aol.com>  
To: aprssig@tapir.org  
Subject: METEOR SCATTER

Subj: METEOR SCATTER  
Date: 12/14/95  
To: aprssig@tapir.org

From 140400Z thru 141400Z I left my APRS station online here in Daytona Beach, Florida on 145.790 MHz looking for meteor scatter reports. The following data was recorded on my "V" screen:

KF0ZH>APRS,GATE\*,WIDE/V:@141518z4447.06N/09329.48W\_202/000/T025/R000/P000/U-II

Callbook research revealed Scott D. Lebens, KF0ZH, 1261 Limestoone Drive, Skakopee, Minnesota, 55379.  
Looks like meteor scatter to me!

Bob, WB2NGZ

---

Well, this will be a first...An APRS SIG contributor is going to flame HIMSELF! The dummy who wrote the message above (Me) didn't notice the little \* after the word GATE in the received data line above which means that I copied the alleged meteor scatter from a GATE station in Orlando. Thanks to Rich, N4CZF, for bringing my stupidity to my attention. Oh well, wait til next year!!

Regards...Bob, WB2NGZ

From bruninga@nadm.navy.mil Thu Dec 14 18:43:02 1995  
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])  
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id SAA11358 for <aprssig@tapr.org>; Thu,  
14 Dec 1995 18:42:59 -0600 (CST)  
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id  
TAA09378; Thu, 14 Dec 1995 19:43:24 -0500  
Date: Thu, 14 Dec 1995 19:43:23 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
To: aprssig@tapr.org  
cc: amsat-bb@amsat.org  
Subject: MIM Module  
Message-ID: <Pine.SUN.3.91.951214192615.9247B-1000000@greatlakes>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

The Micro-Interface-Module is a complete GPS position reporting and telemetry transmitting system on a single chip. It accepts 5 analog inputs, 8 bit inputs, and a NMEA string, and it outputs AX.25 packet tones and a PTT signal. Connect it to any transmitter and you have a device that can not only be tracked by APRS, but who's telemetry can also be displayed by APRS. Its small size (match box) and low power, make it easy to build small tracking applications.

We have just added an extended low-power mode. In this mode, the chip sleeps while only drawing 0.015 ma. It can be programmed to wake up periodically, turn on the GPS for 10 minutes, get a fix, and go back to sleep. It can wake up at a separate periodicity to transmit its last position and current telemetry as needed.

In this mode, you can build a package the size of a tall beer can which will update its position once a day, and report its last position and current status every hour, FOR A YEAR! This is using 6 standard ALKALINE D cells. LONGER on Lithiums! Just think of the applications!

Prototypes will be available in a few weeks....

-----  
|DE WB4APR in Annapolis MD.|  
-----

From ldajz@epix.net Thu Dec 14 18:59:58 1995  
Received: from epix.net (grape.epix.net [199.224.64.22]) by sys1.tapr.org  
(8.7.2/8.7.2) with ESMTP id SAA12058 for <aprssig@tapr.org>; Thu, 14 Dec 1995  
18:59:56 -0600 (CST)  
Received: from clsmppp36.epix.net (clsmppp36.epix.net [199.224.65.36]) by epix.net  
(8.7.1/8.7) with SMTP id TAA17116 for <aprssig@tapr.org>; Thu, 14 Dec 1995  
19:59:28 -0500 (EST)  
Message-Id: <199512150059.TAA17116@epix.net>

Comments: Authenticated sender is <ldajz@mailhost.epix.net>  
From: ldajz@epix.net  
To: aprssig@tapr.org  
Date: Thu, 14 Dec 1995 20:00:06 +0000  
Subject: help getting started  
Priority: normal  
X-mailer: Pegasus Mail for Windows (v2.10)

Hi and thanks for reading...

A few of us in NE PA are really trying to get VHF APRS rolling. We are all situated around Scranton, with three of us in the vally, but three others at better elevations. We seem to have made progress between us, but can't seem to get reliable postings sent throughout our system. In other words, the well situated stations hear all of the juicy APRS stations from CT to MDC, but don't seem to send them to us "in the valley".

We have decided among us, that it is time to get set up on a mountain top repeater site, but with the bad wx, it may be Spring before that happens. So as for now, does anyone have advise as how to set the TNC's at the favorable locations (denoted as A,B, & C) and the valley TNC's (denoted as X,Y, & Z). Just for the record, A,B, & C hear X,Y,Z,& each other, but only X can hear and transmit to A,B,C,Y,& Z.

Mountains riddle this area and seem to be the root evil to our problem. I know this is quite a paradox, but any suggestions would be appreciated, even though it may have already been attempted.

X just happens to be me... Al, N3KAE ldajz@epix.net

From bruninga@nadm.navy.mil Thu Dec 14 19:52:00 1995  
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])  
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id TAA15041 for <aprssig@tapr.org>; Thu,  
14 Dec 1995 19:51:58 -0600 (CST)  
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id  
UAA09594; Thu, 14 Dec 1995 20:52:24 -0500  
Date: Thu, 14 Dec 1995 20:52:23 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
To: aprssig@tapr.org  
Subject: Re: [APRSSIG:5174] Ltrack Lines from KPC-3  
In-Reply-To: <951215001551\_102256.1216\_BHB27-2@CompuServe.COM>  
Message-ID: <Pine.SUN.3.91.951214205018.9589A-1000000@greatlakes>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 14 Dec 1995, Doug Woodruff wrote:

>  
> How do I configure the downloaded "Ltrack" lines from my KPC-3 so that  
> APRS will put a symbol on the screen and plot their progression when  
> playing the file as a track history?



I donno the exact format that is in the Ltrack, but if it is the raw NMEA gps strings, then it needs to be put in to APRS format. Use the GPSToHST.bas program.

You may need to modify the program slightly to match your exact format, but it should give you a starting point.

-----  
|DE WB4APR in Annapolis MD.|  
-----

From bruninga@nadm.navy.mil Thu Dec 14 20:00:52 1995  
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])  
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id UAA15295 for <aprssig@tapir.org>; Thu,  
14 Dec 1995 20:00:50 -0600 (CST)  
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id  
VAA09636; Thu, 14 Dec 1995 21:01:15 -0500  
Date: Thu, 14 Dec 1995 21:01:15 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
To: aprssig@tapir.org  
Subject: Re: [APRSSIG:5179] help getting started  
In-Reply-To: <199512150059.TAA17116@epix.net>  
Message-ID: <Pine.SUN.3.91.951214205513.9589B-100000@greatlakes>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 14 Dec 1995 ldajz@epix.net wrote:

> between us, but can't seem to get reliable postings sent throughout  
> our system.

APR REPLY: This is know as the RELAY-RELAY problem. Everyone digipeats  
everyone elses packets and ANYONE that hears 2 other stations equally,  
will NEVER hear a 3rd distant station because the other two digi at the  
SAME time and colide at your station. YOU NEED A SINGLE DIGI that all  
can hear and you should address that digi with something other than WIDE!

> In other words, the well situated stations hear all of  
> the juicy APRS stations from CT to MDC, but don't seem to send them  
> to us "in the valley".

APR REPLY: Until the snow melts and you put up a real digi, have ONE of  
the best hillside stations set his ALIAS to WIDE. Then some of the  
distnat stuff that is addressed via WIDE may be digipeated by him down  
into the valley... Also, if anyone has a KAM, have him tune in 10.151  
LSB and set his MYGate call to GATE, and he will then send out all the  
HF stuff into your valley too... (via the VHF side of his KAM or AEA-2232  
or PK-900)...

-----  
|DE WB4APR in Annapolis MD.|  
-----

-----  
From bruninga@nadm.navy.mil Thu Dec 14 20:14:10 1995  
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])  
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id UAA15995 for <aprssig@tapr.org>; Thu,  
14 Dec 1995 20:14:08 -0600 (CST)  
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id  
VAA09658; Thu, 14 Dec 1995 21:14:33 -0500  
Date: Thu, 14 Dec 1995 21:14:32 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
To: aprssig@tapr.org  
Subject: MS report  
Message-ID: <Pine.SUN.3.91.951214210126.9589C-100000@greatlakes>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Nothing, nadda, zip. 40 foot dish running 25 KW ERP pointed from  
Maryland towards Chicago shows no receive hits.

Oscar array pointed at Atlanta, Florida, showed no hits, but was only on  
about 50% of the time due to other needs for the PC.

#### COMMENTS:

\* I think we got far fewer participants this time than last..

\* Being in MScatt mode and not seeing anything on my screen but 3 locals  
instead of the usual 80 stations over 5 states seemed kinda lonely...

\* Conversely, you can set CONTROLS-DIRECT mode anytime you want (over  
night is fun) and see DX, band openings, metoer reflections any time you  
want! The probabilities will just be less, because no one is pointed  
RIGHT AT YOU with a 13 dB antenna. And their packets will be about 3  
times longer... BUT THERE WILL STILL BE thousands of packets out there on  
145.79, most of which will contain a POSIT! With DIRECT mode on, your  
APRS will ONLY capture those heard DIRECT, and filter out all other stuff!

You may be suprised at what you hear, if you can handle the withdrawal  
symptoms of NOT seeing all that other activity!

From snabkey@wingsbbs.com Thu Dec 14 20:56:12 1995  
Received: from wingsbbs.com ([205.243.16.10]) by sys1.tapr.org (8.7.2/8.7.2) with  
SMTP id UAA18273 for <aprssig@tapr.org>; Thu, 14 Dec 1995 20:56:08 -0600 (CST)  
Message-Id: <199512150256.UAA18273@sys1.tapr.org>  
Received: from 192.168.0.1\_75! by wingsbbs.com  
with SMTP (IPAD 0.9.2) id 3355900 ; Thu, 14 Dec 95 22:00:12 UTC  
Comments: Authenticated sender is <snabkey@wingsbbs.com>  
From: "Sam Nabkey" <snabkey@wingsbbs.com>  
To: aprssig@tapr.org  
Date: Thu, 14 Dec 1995 21:55:59 -0500  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

Subject: Re: [APRSSIG:5157] METEOR SCATTER  
X-Confirm-Reading-To: "Sam Nabkey" <snabkey@wingsbbs.com>  
X-pmrqc: 1  
Return-receipt-to: "Sam Nabkey" <snabkey@wingsbbs.com>  
Priority: normal  
X-mailer: Pegasus Mail for Windows (v2.23)

On 14 Dec 95 at 9:47, Wb2ngz@aol.com wrote:

> Date: Thu, 14 Dec 1995 09:47:52 -0600 (CST)  
> Reply-to: aprssig@tapr.org  
> From: Wb2ngz@aol.com  
> To: aprssig@tapr.org  
> Subject: [APRSSIG:5157] METEOR SCATTER

> From 140400Z thru 141400Z I left my APRS station online here in Daytona  
> Beach, Florida on 145.790 MHz looking for meteor scatter reports. The  
> following data was recorded on my "V" screen:  
>  
> KF0ZH>APRS,GATE\*,WIDE/V:@141518z4447.06N/09329.48W\_202/000/T025/R000/P000/U-II

Note the star here -----^

>  
> Callbook research revealed Scott D. Lebens, KF0ZH, 1261 Limestoone Drive,  
> Skakopee, Minnesota, 55379.  
> Looks like meteor scatter to me!

REPLY: Looks like it came from your local GATE station to me...

> Bob, WB2NGZ  
>

>

-----  
Samuel T. Nabkey - WJ8T

{snabkey@wingsbbs.com}

From KD4EMI@aol.com Thu Dec 14 21:02:43 1995  
Received: from mail04.mail.aol.com (mail04.mail.aol.com [152.163.172.53]) by  
sys1.tapr.org (8.7.2/8.7.2) with SMTP id VAA18487 for <aprssig@tapr.org>; Thu, 14  
Dec 1995 21:02:36 -0600 (CST)  
From: KD4EMI@aol.com  
Received: by mail04.mail.aol.com (8.6.12/8.6.12) id WAA19139; Thu, 14 Dec 1995  
22:01:24 -0500  
Date: Thu, 14 Dec 1995 22:01:24 -0500  
Message-ID: <951214220042\_54641008@mail04.mail.aol.com>

To: aprssig@tapr.org  
cc: DMOBLEY@encore.com, 0004818186@mcimail.com  
Subject: GPS, Altitude and general thoughts.

I have been operating on APRS for about 1 year. The station at home is on nearly 24 hours a day. I also operate mobile tracker that consists of a Garmin 45 and KPC3.

Here is the reason why I write. In the year that I have had my garmin, I dont think Ive EVER got a accurate altitude reading. EVEN if the accuracy on the sat screen is 50 feet. (which it has been). The accuracy on the +/- altitude screen is less than 100 feet sometimes and yet the darn thing never really seems to come close. Now, that really doesnt bother me except when I got together with a few other aprs guy and we held our GPS'S next to each other, I mentioned the altitude. HIS Magellen (5000D) I think it was) was fairly accurate...Actually, it was really accurate and changed perfectly when we went up ramps and things on the highway.

I mentioned it to him, and he stated that he thought this was normal operation for GPS'S and was suprised at my reading.

Now...whats the deal..How do I know for example that the LOCATION is even close. ( I CAN GUESS BASED ON THE MOBILES PLOT THAT IT IS OK THOUGH-But thats a hell of a way to verify it)

What has been the experience with the other Garmin and other GPS users. Have you experienced this. Is there a upgrade that Garmin has done...? What strange anomaly is this ?  
73 Mike KD4EMI@AOL.COM

From KD4EMI@aol.com Thu Dec 14 21:09:14 1995  
Received: from emout05.mail.aol.com (emout05.mail.aol.com [198.81.10.37]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id VAA18968 for <aprssig@tapr.org>; Thu, 14 Dec 1995 21:09:12 -0600 (CST)  
From: KD4EMI@aol.com  
Received: by emout05.mail.aol.com (8.6.12/8.6.12) id WAA17512 for aprssig@tapr.org; Thu, 14 Dec 1995 22:08:38 -0500  
Date: Thu, 14 Dec 1995 22:08:38 -0500  
Message-ID: <951214220836\_90643372@emout05.mail.aol.com>  
To: aprssig@tapr.org  
Subject: Re: MIM Module !!

I WANT IT I WANT IT I WANT IT !!!  
Looks like the GPS in the Radio controlled BLIMP is going to happen!  
Lets launch a BALLOON !!

FOX HUNTS ! Keep track of your wife (or husband !)

Put one on your dog...  
Put one on your bike...  
Put one on your kids...

Im sorry I just was temporarily insane. Thanks I feel much better now.  
Mike KD4EMI@AOL.COM

From kc5ejk@onramp.net Thu Dec 14 21:58:31 1995  
Received: from mailhost.onramp.net (mailhost.onramp.net [199.1.11.3]) by  
sys1.tapr.org (8.7.2/8.7.2) with SMTP id VAA21470 for <aprssig@tapr.org>; Thu, 14  
Dec 1995 21:58:29 -0600 (CST)  
Received: from [199.1.11.157] (dal57.onramp.net [199.1.11.157]) by  
mailhost.onramp.net (8.6.12/8.6.5) with SMTP id VAA02452; Thu, 14 Dec 1995  
21:58:13 -0600  
Message-Id: <v02130501acf6a04e8951@[199.1.11.148]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 14 Dec 1995 21:59:08 -0600  
To: 102256.1216@compuserve.com  
From: kc5ejk@onramp.net (Robert Winingham)  
Subject: Re: [APRSSIG:5174] Ltrack Lines from KPC-3  
Cc: aprssig@tapr.org

>Bob,  
>  
> How do I configure the downloaded "Ltrack" lines from my KPC-3 so that

Is your data from the ltrack also in backwards order ie the top of the file  
list is the newest data?

That caused a small problem with MACAPRS this I use and I had to  
use a text eritor to swap the data to make it work.

-----

There should be a basic file in the docs to convert NMEA to hst.

GPStohst

```
PRINT "This program takes a RAW PROCOMM download file from a GPS receiver"
PRINT "in NMEA-0183 format and formats it to look like an APRS packet beacon"
PRINT "It looks for the GGA and VTG sentences."
PRINT
PRINT "For LORAN or other sentences GLL or RMC, you will have to rewrite"
PRINT "Several lines in the program..."
PRINT
INPUT "Enter file name of raw GPS data"; FI$
INPUT "Select NMEA sentence to use RMC or GGA"; NMEA$
INPUT "Enter name of OUTPUT file for APRS compatible TRACK HISTORY"; FO$
INPUT "Enter callsign to be used with the raw data"; CALL$
INPUT "Enter two digit DAY of data"; Day
```

73 from another Bob who is not close to Annapolis MD

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

From bruninga@nadm.navy.mil Thu Dec 14 22:00:23 1995  
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])  
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id WAA21533 for <aprssig@tapr.org>; Thu,  
14 Dec 1995 22:00:21 -0600 (CST)  
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id  
XAA09864; Thu, 14 Dec 1995 23:00:45 -0500  
Date: Thu, 14 Dec 1995 23:00:45 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
To: aprssig@tapr.org  
Subject: APRS hint #2346.5  
Message-ID: <Pine.SUN.3.91.951214225530.9833C-1000000@greatlakes>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

In going back and forth between other applications and APRS during last  
nights meteor shower, I was constantly using the AUTO-LOAD-BACKUP option.

Though I would remind everyone about it, since I dont have any idea  
where it might be covered in the "docs"..

You may start up aprs with a "/b" at the end and it will load the BACKUP  
file immediately...

COROLLARY: SINCE I also can never remember the  
"version-number-of-the-week" I always copy the latest APRSxx to APRS.exe  
so that all I ever have to do to start APRS is type APRS/b...

-----  
|DE WB4APR in Annapolis MD.|  
-----

From geh@aip.org Thu Dec 14 22:15:41 1995  
Received: from aip.org (pinet.aip.org [192.58.150.10]) by sys1.tapr.org  
(8.7.2/8.7.2) with SMTP id WAA22228 for <aprssig@tapr.org>; Thu, 14 Dec 1995  
22:15:39 -0600 (CST)  
Date: Thu, 14 Dec 95 23:15:37 EST  
From: geh@aip.org (gordon\_hardman)  
Message-Id: <9512150415.AA14080@aip.org>  
In-Reply-To: "Art Smith"'s message of 12/14/95  
To: aprssig@tapr.org  
Subject: Re: [APRSSIG:5162] RE: METEOR SCATTER TONIGHT!

Art,

I am at least experimenting with aprs, listening on '79. I run a  
couple watts into a 4el verical on the roof, pointed southeast. AEA  
DSP2232, and I do have a brick, normally off except for preamp. Using  
APRS 69, and struggling to figure it all out! Want to add HF. Also  
need to get latest version of APRS.

Gordon Hardman KE3D  
Backcountry Technology  
4002.90N/10517.55W/5500ft  
Boulder, CO  
<geh@aip.org>

From tdrumm@sparc.isl.net Thu Dec 14 22:15:55 1995  
Received: from sparc.isl.net (root@sparc.isl.net [199.3.25.3]) by sys1.tappr.org (8.7.2/8.7.2) with SMTP id WAA22253 for <aprssig@tappr.org>; Thu, 14 Dec 1995 22:15:53 -0600 (CST)  
Received: from slip-03.isl.net (slip-03.isl.net [199.3.25.103]) by sparc.isl.net (8.6.10/8.6.10) with SMTP id VAA12675 for <aprssig@tappr.org>; Thu, 14 Dec 1995 21:52:06 -0600  
Message-Id: <199512150352.VAA12675@sparc.isl.net>  
X-Sender: tdrumm@sparc.isl.net  
X-Mailer: Windows Eudora Version 1.4.3  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 14 Dec 1995 21:51:41 -0600  
To: aprssig@tappr.org  
From: tdrumm@sparc.isl.net (Tony Drumm)  
Subject: Re: [APRSSIG:5146] Mscatt False Alarm?

>APR REPLY: Looks more to me like someone left your local area APRS HF  
>gateway running. Most of those calls are the guys I see on HF every day..  
>

Unfortunately, looks like you're right. The ice storm did a number on my antenna so I saw nothing over night. (SWR at 5:1 - normally close to 1:1 at that freq.) More bad news - WD0GNK got nothing other than my station when I was had APRS running. I've had a bad feeling that it was somehow deaf - I've not been able to receive N0QVC just 30-40 miles away when pointed at it. I receive that station at home with a much more modest station with no problem. So, it's not working like it did back in the August test. But I was running out through a brick so maybe something got out. ?? Wait and see.

I ran my station tonight with paKet for a while, logging the packets and saw W3ADO just digipeated here like you implied. Well, I hope we can get the GNK station in better shape by the next test.

73.

Tony Drumm  
internet: tdrumm@sparc.isl.net  
Packet: aa0sm@wd0gnk.#semn.mn.usa.na

From bruninga@nadm.navy.mil Thu Dec 14 22:18:38 1995  
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4]) by sys1.tappr.org (8.7.2/8.7.2) with SMTP id WAA22580 for <aprssig@tappr.org>; Thu, 14 Dec 1995 22:18:35 -0600 (CST)  
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id XAA09936; Thu, 14 Dec 1995 23:19:00 -0500  
Date: Thu, 14 Dec 1995 23:19:00 -0500 (EST)

From: Bob Bruninga <bruninga@nadn.navy.mil>  
To: aprssig@tapr.org  
Subject: Track history QUESTION?  
Message-ID: <Pine.SUN.3.91.951214230048.9833D-1000000@greatlakes>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Here I sit waiting for a mobile so I can see if the auto-save-track history is really working..

While pondering this, I am also ready to make a change in the way TK-HSTS are saved. If you OBJECT to this change, lemme know. Otherwise I will assume you agree with the change...

EXISTING LOGIC: Everytime APRS saves a track history, it FIRST saves a posit for all of the stations currently in the P-LIST. The logic was, that each track history file would then "stand alone" as a capture of not only the moving station, but also all of the other stations participating in the event.

THE DOWN SIDE: In our area with a full PLIST at all times, this stuffs 80 FIXED posits into every track history file (which only holds 199). NOT only is this wasteful of disk space, but it also requires manual editing out of these fixed stations when you go to combine multiple track history files.

PROPOSED ACTION: I will delete the automatic dump of the P-LIST into every track history file. If you want to see who all was on the P-LIST during an event, LOAD THE BACKUP file for the same time period. If you want a single summary file for the whole event, you can use an editor to CUT out the POSITS from the BK file and PASTE them into the TK HISTORY file...

FINAL NOTE: Remember, the track history will only be saved if:

(1) the CONTROLS-LOG function is ON

\*AND\*

(2) the track history memory fills up to 199 entries

----OR----

(3) you do a FILES-SAVE command AND give a name \*other than\* BACKUP.

P.S. Three stations have indicated that APRS did NOT save a HST file when expected... but it is impossible to know what was the exact condition of their settings when this occurred. CAN ANYONE CONFIRM THAT RECENT APRS versions HAVE SAVED A TRACK HISTORY AUTOMATICALLY?

I don't want to go "fix" it if it ain't broke!

-----  
|DE WB4APR in Annapolis MD.|  
-----

From vinctesr@moon.flanet.com Thu Dec 14 23:19:33 1995  
Received: from flanel.com (root@moon.flanet.com [163.125.37.4]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id XAA25599 for <aprssig@tapr.org>; Thu, 14 Dec 1995



23:19:31 -0600 (CST)

Received:

from moon.flanet.com by flanel.com  
with smtp

(Linux Smail3.1.28.1 #5)

id m0tQSPz-000oLDC; Fri, 15 Dec 95 00:10 EST

Message-Id: <m0tQSPz-000oLDC@flanel.com>

X-Sender: vincestr@moon.flanet.com

X-Mailer: Windows Eudora Version 1.4.4

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Date: Fri, 15 Dec 1995 00:18:42 -0500

To: Bob Bruninga <bruninga@nadn.navy.mil>, aprssig@tapr.org

From: vincestr@moon.flanet.com (Vince)

Subject: Re: MIM Module

At 07:43 PM 12/14/95 -0500, Bob Bruninga wrote:

>The Micro-Interface-Module is a complete GPS position reporting and  
>telemetry transmitting system on a single chip. It accepts 5 analog  
>inputs, 8 bit inputs, and a NMEA string, and it outputs AX.25 packet  
>tones and a PTT signal. Connect it to any transmitter and you have a  
>device that can not only be tracked by APRS, but who's telemetry can also  
>be displayed by APRS. Its small size (match box) and low power, make it  
>easy to build small tracking applications.

>

>We have just added an extended low-power mode. In this mode, the chip  
>sleeps while only drawing 0.015 ma. It can be programmed to wake up  
>periodically, turn on the GPS for 10 minutes, get a fix, and go back to  
>sleep. It can wake up at a separate periodicity to transmit its  
>last position and current telemetry as needed.

>

> In this mode, you can build a package the size of a tall beer can  
>which will update its position once a day, and report its last position  
>and current status every hour, FOR A YEAR! This is using 6 standard  
>ALKALINE D cells. LONGER on Lithiums! Just think of the applications!

>

>Prototypes will be available in a few weeks....

>

>-----  
>|DE WB4APR in Annapolis MD.|  
>-----

>

>

>

>

Where can I get more info on this? I am trying to build a GPS  
reporting system that will fit into a high performance model rocket.

About how much will it cost?

Could I obtain(purchase) a sample for beta testing and design?

Is there any documentation available now?

Vince  
KD7AI

From dwetzel@acs.uswest.com Thu Dec 14 23:24:45 1995  
Received: from uswat.advtech.uswest.com (uswat.advtech.uswest.com [130.13.16.1])  
by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id XAA25868 for <aprssig@tapir.org>; Thu,  
14 Dec 1995 23:24:43 -0600 (CST)  
From: dwetzel@acs.uswest.com  
Received: from easthub ([151.117.26.86]) by uswat.advtech.uswest.com (8.7.1/8.7.1)  
with SMTP id WAA07002 for <aprssig@tapir.org>; Thu, 14 Dec 1995 22:24:40 -0700  
(MST)  
Received: by easthub.mnet.uswest.com (M-Net Hub.950111)  
Received: from acmspgw1.mnet.uswest.com by acs.uswest.com (5.x/SMI-SVR4)  
id AA05670; Thu, 14 Dec 1995 23:24:38 -0600  
Received: from ccMail by acmspgw1.mnet.uswest.com  
(IMA Internet Exchange 1.04b beta) id 0d0fcf60; Thu, 14 Dec 95 22:43:34 -0600  
Mime-Version: 1.0  
Date: Sun, 10 Dec 1995 06:51:56 -0600  
Message-Id: <0d0fcf60@acmspgw1.mnet.uswest.com>  
Subject: Re: [APRSSIG:5038] Geminids Test Announcement  
To: aprssig@tapir.org  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit  
Content-Description: cc:Mail note part

Where are the continental divisions, Stan?

----- Reply Separator -----  
Subject: [APRSSIG:5038] Geminids Test Announcement  
Author: aprssig@tapir.org at Internet-Mail  
Date: 12/9/95 11:04 AM

Geminids Packet Meteor Scatter Test

Date: December 14, 1995  
Time: 0000-2400 UTC  
Freq: 50.62 MHz, 145.79 MHz (if available in your area)  
Mode: 1200 baud AX.25 packet

Sending Packets

According to the plan, each quadrant of the continent will take turns  
transmitting for 15-second periods of each minute as follows:

Northeast stations transmit for the first 15-second period of the minute  
(seconds 0 to 14), Southeast stations transmit for the second 15-second  
period of each minute (seconds 15 to 29), Southwest stations transmit  
for the third 15-second period of the minute (seconds 30 to 44), and

Northwest stations transmit for the fourth 15-second period of each minute (seconds 45 to 60).

There are two ways to transmit your meteor scatter packets. Use the meteor scatter mode of APRS. This mode allows your computer to automatically send packets and plot received packets on a map.

The second way is to insert your grid square in the T0: address field of your TNC by using the UNPROTO command and then use the Converse Mode to send packets.

If you live in any area that straddles a quadrant, you must plan carefully and coordinate your transmissions with other local participants. Make plans not only to minimize interference to other locals, but to be sure that you are transmitting at a time when your intended target is scheduled to listen.

By the way, only stations running at least 100 watts into a beam antenna should transmit. Anything less is unlikely to propagate packets via meteor scatter and just causes unnecessary QRM.

#### Receiving Packets

Even if your station is not a powerhouse, you can still participate by monitoring the test. If you are running APRS, each received grid square packet is plotted on a map and entered into the APRS Heard log. If you are not running APRS, I recommend setting the clock in your TNC and enabling the time-stamping function so that each monitored packet displays the date and time of its reception. This makes logging received packets easy and permits unattended monitoring and logging when you are unable to sit in front of your computer.

During the reception period, watch for stations sending packets containing grid squares. If you have a grid square map handy, make a note of the grid squares that are 500 to 1200 miles from your QTH and when you receive a grid square from one of those, you know you have hit pay dirt. If you are running 100 watts or more into a beam antenna, you can try and make a connection with that station, too!

#### Reporting Packets

After the test, send your reports contain the following information:

Your call sign  
Your state/province  
Your grid square  
Your effective radiated power (if you transmitted during the test)  
Call sign of received/connected station  
Grid square of received/connected station  
Time of reception/connection in UTC and number of received packets  
Mileage between your and received/connected station

Send your reports by mail to:

Stan Horzepa, WA1LOU  
One Glen Ave.  
Wolcott, CT 06716-1442

or electronically to:

horzepa@gdc.com via Internet email  
70645,247 via Compuserve  
Stand1up via America Online

--

|                                  |   |                      |                    |
|----------------------------------|---|----------------------|--------------------|
| Stan Horzepa                     | ~ | phone:               | 203-758-1811 x7369 |
| Technical Writing Supervisor     | ~ | email:               | horzepa@gdc.com    |
| General DataComm (MODEMS 'R' US) | ~ | radio:               | WA1LOU             |
| P. O. Box 1299                   | ~ | packet radio mail:   | WA1LOU@N4GAA       |
| Middlebury, CT 06762-1299        | ~ | TCP/IP packet radio: | 44.88.4.8          |

~~~~~ What! - Me Worry? ~~~~~

From dwetzel@acs.uswest.com Thu Dec 14 23:37:45 1995
Received: from uswat.advtech.uswest.com (uswat.advtech.uswest.com [130.13.16.1])
by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id XAA26517 for <aprssig@tapir.org>; Thu,
14 Dec 1995 23:37:43 -0600 (CST)
From: dwetzel@acs.uswest.com
Received: from easthub ([151.117.26.86]) by uswat.advtech.uswest.com (8.7.1/8.7.1)
with SMTP id WAA07278 for <aprssig@tapir.org>; Thu, 14 Dec 1995 22:37:40 -0700
(MST)
Received: by easthub.mnet.uswest.com (M-Net Hub.950111)
Received: from acmspgw1.mnet.uswest.com by acs.uswest.com (5.x/SMI-SVR4)
id AA05708; Thu, 14 Dec 1995 23:37:38 -0600
Received: from ccMail by acmspgw1.mnet.uswest.com
(IMA Internet Exchange 1.04b beta) id 0d100030; Thu, 14 Dec 95 22:56:35 -0600
Mime-Version: 1.0
Date: Thu, 14 Dec 1995 22:34:12 -0600
Message-Id: <0d100030@acmspgw1.mnet.uswest.com>
Subject: Evil DOZ behavior in 74e
To: aprssig@tapir.org
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Description: cc:Mail note part

Did anyone else try to run 74e DOZed in Windows during the MS test? I
consistently get an error 5 bomb when the quadrant timer initiates a
transmission in MS mode. Don't see the problem when NOT in Scatter,
and I haven't done any research in Space to see if the same effect
occurs.

Of course, I also managed to run the whole test period with the
receiver volume turned down low enough to never even see local
packets, so there is a SLIGHT possibility that there's a head space
problem in the shack as well....

Oh, well. Only another eight and a half months till the Perseids.

Doug Wetzel

KC7CO

Warhead sweet spot 40.31.49N 111.50.54W

From mwalker@interlog.com Fri Dec 15 07:31:31 1995

Received: from gold.interlog.com (root@gold.interlog.com [198.53.145.2]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id HAA22399 for <aprssig@tapir.org>; Fri, 15 Dec 1995 07:31:29 -0600 (CST)

Received: from interlog.com (mwalker.interlog.com [199.212.152.131]) by gold.interlog.com (8.6.10/8.6.10) with SMTP id IAA26813; Fri, 15 Dec 1995 08:31:24 -0500

Message-Id: <199512151331.IAA26813@gold.interlog.com>

Date: Thu, 14 Dec 95 20:31:20 EST

From: mwalker@interlog.com (Mike Walker)

Reply-To: mwalker@interlog.com (Mike Walker)

To: aprssig@tapir.org

Cc: ruthhull@kantronics.com

X-Mailer: Mike Walker's PMMail v1.1

Subject: Re: [APRSSIG:5190] Track history QUESTION?

On Thu, 14 Dec 1995 22:43:55 -0600 (CST) you wrote:

>P.S. Three stations have indicated that APRS did NOT save a HST file
>when expected... but it is impossible to know what was the exact
>condition of their settings when this occurred. CAN ANYONE CONFIRM THAT
>RECENT APRS versions HAVE SAVED A TRACK HISTORY AUTOMATICALLY?
>

Hi Bob,

I'm running 74C, and I thought I was going nuts. I travelled through all the heavy snow from north of Toronto to North Bay on Sunday (last) and noticed that I didn't keep the track. I'm now up to the 74E and will check closely today as I drive to work.

I'll let you know.

BTW you may want to add in your KPC file that if you change a KPC-3 from stand alone mode to HSP mode, that you must delete the the LTP fields, or it will continue to transmit the last value in the field. In my case, it was NO data, and I was transmitting commas. If the LTP values have old posits, you will keep transmitting them as well as the new beacon text.

It would be nice if the KPC-3 would only use these values if the INTF is set to GPS. Normal operation is when it is set to TERM. (Do you have contact with Katronics?)

cheers...mike

Mike Walker
127 High St. W.
Mississauga, ON

mwalker@interlog.com
rf: va3mw@va3bbs

L5H 1K4

From n4uls@ix.netcom.com Fri Dec 15 07:57:47 1995
Received: from ix5.ix.netcom.com (ix5.ix.netcom.com [199.182.120.5]) by
sys1.tapir.org (8.7.2/8.7.2) with SMTP id HAA23685 for <aprssig@tapir.org>; Fri, 15
Dec 1995 07:57:45 -0600 (CST)
Received: from by ix5.ix.netcom.com (8.6.12/SMI-4.1/Netcom)
id FAA16320; Fri, 15 Dec 1995 05:57:12 -0800
Date: Fri, 15 Dec 1995 05:57:12 -0800
Message-Id: <199512151357.FAA16320@ix5.ix.netcom.com>
From: n4uls@ix.netcom.com (Jack Anderson)
Subject: Re: [APRSSIG:5179] help getting started
To: aprssig@tapir.org

You wrote:

>
>Hi and thanks for reading...
>
>A few of us in NE PA are really trying to get VHF APRS rolling. We
>are all situated around Scranton, with three of us in the vally, but
>three others at better elevations. We seem to have made progress
>between us, but can't seem to get reliable postings sent throughout
>our system. In other words, the well situated stations hear all of
>the juicy APRS stations from CT to MDC, but don't seem to send them
>to us "in the valley".

Pick the best "well situated station" and tell the TNC "MYA WIDE", or
ALT-S,W from APRS. If this station can hear another WIDE digipeater
directly, it might catch some of the stations using WIDE,WIDE on the
first hop and digipeat the second hop to your valley stations. That's
probably the best you can do until you get your mountaintop digipeater
running.

This may also help the rest of us see your area as well. The users
that can hit your temporary wide should set up an unproto path that
uses the temp wide callsign as the first station, then WIDE,WIDE or
even more non-generic digipeater callsigns to get your packets out of
the Scranton area and into the rest of the NE network.

Good luck,

Jack

n4uls@ix.netcom.com
janderson@ram.net

From n4uls@ix.netcom.com Fri Dec 15 08:34:26 1995
Received: from ix10.ix.netcom.com (ix10.ix.netcom.com [199.182.120.10]) by
sys1.tapir.org (8.7.2/8.7.2) with SMTP id IAA25594 for <aprssig@tapir.org>; Fri, 15
Dec 1995 08:34:23 -0600 (CST)
Received: from by ix10.ix.netcom.com (8.6.12/SMI-4.1/Netcom)
id GAA02601; Fri, 15 Dec 1995 06:30:41 -0800
Date: Fri, 15 Dec 1995 06:30:41 -0800

Message-Id: <199512151430.GAA02601@ix10.ix.netcom.com>
From: n4uls@ix.netcom.com (Jack Anderson)
Subject: Re: [APRSSIG:5184] GPS, Altitude and general thoughts.
To: aprssig@tapr.org

You wrote:

>What has been the experience with the other Garmin and other GPS users. Have
>you experienced this. Is there a upgrade that Garmin has done...? What
>strange anomaly is this ?
>73 Mike KD4EMI@AOL.COM

I've never seen very accurate altitude readings from GPS receivers. At least the
Garmin tells you about how far you might be off.

Jack

From mwalker@gold.interlog.com Fri Dec 15 08:50:29 1995
Received: from gold.interlog.com (mwalker@gold.interlog.com [198.53.145.2]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id IAA26504 for <aprssig@tapr.org>; Fri, 15
Dec 1995 08:50:27 -0600 (CST)
Received: (from mwalker@localhost) by gold.interlog.com (8.6.10/8.6.10) id
JAA09328; Fri, 15 Dec 1995 09:50:24 -0500
Date: Fri, 15 Dec 1995 09:50:23 -0500 (EST)
From: Michael Walker <mwalker@gold.interlog.com>
Subject: Track History
To: aprssig@tapr.org
Message-ID: <Pine.3.89.9512150918.A8743-0100000@gold.interlog.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Bob,
I drove to work with track history turned on (upper case LOG) running
v74c and when I got here, I exited and checked the track sub-directory.
There was no track history written.

I have noticed in the past that I have to do a File Save in order to get
it to save. Is this working as designed?

(I forgot to take 74e out to the car, so the laptop was on an older
version).

On the way home tonight, I will file/save first and then check it.

cheers...mike

Michael Walker
mwalker@interlog.com
VA3MW

From bruninga@nadn.navy.mil Fri Dec 15 09:37:23 1995

Received: from greatlakes.nadn.navy.mil (greatlakes.nadn.navy.mil [131.121.9.4])
by sys1.tappr.org (8.7.2/8.7.2) with SMTP id JAA29256 for <aprssig@tappr.org>; Fri,
15 Dec 1995 09:37:17 -0600 (CST)

Received: (from bruninga@localhost) by greatlakes.nadn.navy.mil (8.6.12/8.6.12) id
KAA15527; Fri, 15 Dec 1995 10:37:43 -0500

Date: Fri, 15 Dec 1995 10:37:42 -0500 (EST)

From: Bob Bruninga <bruninga@nadn.navy.mil>

To: aprssig@tappr.org

Subject: Re: [APRSSIG:5197] Track History

In-Reply-To: <Pine.3.89.9512150918.A8743-0100000@gold.interlog.com>

Message-ID: <Pine.SUN.3.91.951215103138.15030D-100000@greatlakes>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 15 Dec 1995, Michael Walker wrote:

> I drove to work with track history turned on (upper case LOG) running
> v74c and when I got here, I exited and checked the track sub-directory.
> There was no track history written.
>
> I have noticed in the past that I have to do a File Save in order to get
> it to save. Is this working as designed?

APR REPLY: Yes, LOG ON only means that a TRACK HISTORY will be
eventaully saved once the 199 track memory FILLS UP. If it never fills
on a short trip, then it will NOT automatically save. You must manually
save. I CHECKED the code today, and LOG saving should be working as
advertised.

From jkerns@usit.net Fri Dec 15 11:09:13 1995

Received: from use.usit.net (use.usit.net [199.1.48.3]) by sys1.tappr.org
(8.7.2/8.7.2) with SMTP id LAA05633 for <aprssig@tappr.org>; Fri, 15 Dec 1995
11:09:11 -0600 (CST)

Received: from bway-slip81.dynamic.usit.net (bway-slip81.dynamic.usit.net
[204.194.172.127]) by use.usit.net (8.6.10/8.6.9) with SMTP id MAA00931 for
<aprssig@tappr.org>; Fri, 15 Dec 1995 12:11:17 -0500

Message-Id: <199512151711.MAA00931@use.usit.net>

X-Sender: jkerns@usit.net (Unverified)

X-Mailer: Windows Eudora Version 1.4.4

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Date: Fri, 15 Dec 1995 00:06:23 -0500

To: aprssig@tappr.org

From: jkerns@usit.net (jim kerns)

Subject: Re: [APRSSIG:5166] Re: Grabber.exe

>On Thu, 14 Dec 1995, jim kerns wrote:

>>

>> I have loaded grabber on occassions and also at other times grpcx. Both
>> I always use cntrl alt F1 to grab the screen when loaded grpcx. But I
>> always get the logo screen of APRS, once I got the Beacon Screen, I have
>> never been able to grab the screen I'm on, which is the map with calls
>

>APR REPLY: APRS uses dual screens. It uses the the default screen for
>all text and uses the alternate screen for the map.
>
>To save an APRS screen, simply run APRS from windows, press the PRINT-SCREEN
>KEY and then exit APRS. When you bring up PAINTBRUSH, you will find the
>APRS screen on your clipboard. Load it and have fun!
>
>
>-----
>|DE WB4APR in Annapolis MD.|
>-----
Bob I tried but it didnt save to clipboard, but I'll try a few more times.
Thanks.
Jim
N4PUQ>
>
>

From mwalker@gold.interlog.com Fri Dec 15 11:11:54 1995
Received: from gold.interlog.com (mwalker@gold.interlog.com [198.53.145.2]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id LAA05712 for <aprssig@tapr.org>; Fri, 15
Dec 1995 11:11:48 -0600 (CST)
Received: (from mwalker@localhost) by gold.interlog.com (8.6.10/8.6.10) id
MAA05338; Fri, 15 Dec 1995 12:11:45 -0500
Date: Fri, 15 Dec 1995 12:11:45 -0500 (EST)
From: Michael Walker <mwalker@gold.interlog.com>
Subject: SALE - QST Patch Antenna
To: aprssig@tapr.org
cc: kwalker@interlog.com
Message-ID: <Pine.3.89.9512151200.B2705-01000000@gold.interlog.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

It looks like I can say I have a working patch antenna that I can make in
some Quantity. I have been using it on a Garmin 45 for several weeks and
other than some freezing rain and snow falling at 10" per hour (not a
typo), it is pretty reliable.

Coverage from Zenith to 45 degrees is excellent (better than the helix)
>From 45 degrees down to about 65 degrees is somewhat less than the helix
that comes with the Garmin 45.
Near the horizon has very poor coverage.
It comes with 10ft of RG-58 (95% braid) and a BNC connector
It also has 4 3/4" magnets on the bottom.

I have materials to make about 20 or so. I'm still finding some
suppliers for magnets, etc...

The cost will be \$30 US and \$5 for shipping and packing materials.
Shipments will be via Canadian Mail (this is the best way so we don't
have any brokerage charges).

Payment is via money order or bank draft please in US\$.

(Canadians, please contact me directly for pricing).

Mike Walker
127 High Street West
Mississauga, ON
L5H 1K4
(905) 891-6328 (internet preferred)

Michael Walker
mwalker@interlog.com
VA3MW

From ah586@detroit.freenet.org Fri Dec 15 11:59:23 1995
Received: from detroit.freenet.org (detroit.freenet.org [204.29.212.10]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id LAA08266 for <aprssig@tapr.org>; Fri, 15
Dec 1995 11:59:16 -0600 (CST)
Received: (from ah586@localhost) by detroit.freenet.org (8.6.10/869.2) id
MAA08471; Fri, 15 Dec 1995 12:59:13 -0500
Date: Fri, 15 Dec 1995 12:59:13 -0500
Message-Id: <199512151759.MAA08471@detroit.freenet.org>
From: ah586@detroit.freenet.org (Steve Sable)
To: aprssig@tapr.org
Subject: APRS NET?
Reply-To: ah586@detroit.freenet.org

Is there by any chance
an APRS HF net anywhere? Would like to
find a place other than the internet where
one could ask questions regarding the operation
of APRS.

--
 _ _ | | _ _ _ | _ _ | \ \ \ / _ _ | ah586@detroit.freenet.org
 \ _ _ \ _ _ | _ | \ \ \ / _ | N8NYU
 ---- / _ | _ _ | \ _ / _ _ | Maybee, Michigan

From ryza1@llnl.gov Fri Dec 15 12:02:59 1995
Received: from pierce.llnl.gov (pierce.llnl.gov [128.115.18.253]) by sys1.tapr.org
(8.7.2/8.7.2) with SMTP id MAA08391 for <aprssig@tapr.org>; Fri, 15 Dec 1995
12:02:56 -0600 (CST)
Received: from [128.115.37.22] by pierce.llnl.gov (8.6.10/LLNL-1.18/
llnl.gov-03.95)
id KAA17809; Fri, 15 Dec 1995 10:02:52 -0800
X-Sender: e10a558@popsicle.llnl.gov
Message-Id: <v02130501acf762e0f81b@[128.115.37.22]>

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Fri, 15 Dec 1995 10:03:25 -0800
To: aprssig@tapr.org
From: ryza1@llnl.gov (Pete Ryza)
Subject: Re: [APRSSIG:4347] California maps at TAPR

>CAMAPS04.zip has been uploaded to FTP TAPR.ORG in the TAPR/SIG/APRS/UPLOADS
>directory.
>
>This update includes some 1 mile neighborhood maps in the San Francisco area
>plus
>some larger scale maps of areas in Northern California previously not covered
>well.
>
>Copy CAMAPS04.zip into your toplevel APRS directory then use the PKUNZIP -d
>command to unzip it. This will place the new MAPLIST.CA into the APRS
>directory and the maps into the \MAPS subdirectory.
>
>Since this is my first FTP try, will the first person who successfully
>downloads and
>unzips CAMAPS04.zip from TAPR, please let me know!
>
>73, Ken, W7KKE
>kswaggart@aol.com

Ken:

I want to thankyou for making the Tracy maps. They turn out very nice.

I,am still learning alot about APRS which is good that way it keeps the
interest up.

Again Thanks I will be looking for on the map.

73's
Pete
wb9qwu@tracy

```
*****
*      Pete Ryza      *
*                    *
*      email--ryza1@llnl.gov    *
*      Voice--510-423-8173      *
*      Fax----510-422-9462      *
*      Pager--510-423-7705  05578 *
*                    *
*****
```

From geh@aip.org Fri Dec 15 12:03:56 1995
Received: from aip.org (pinet.aip.org [192.58.150.10]) by sys1.tapr.org
(8.7.2/8.7.2) with SMTP id MAA08721 for <aprssig@tapr.org>; Fri, 15 Dec 1995

12:03:54 -0600 (CST)
Date: Fri, 15 Dec 95 13:03:52 EST
From: geh@aip.org (gordon_hardman)
Message-Id: <9512151803.AA29777@aip.org>
In-Reply-To: Jack Anderson's message of 12/15/95
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5196] Re: GPS, Altitude and general thoughts.

I think that you should not be surprised that you get large vertical errors. I have noticed the same thing here in Colorado, where vertical information is of great interest in the mountains. The effect of Selective Availability is to degrade the vertical accuracy to around +/- 500 feet. You can do better than this if you have a differential setup (was your friend perhaps using the differential capability of his Magellan?). Other errors can arise from poor satellite geometry and from multipath- if one receiver has a better antenna, it could a) track more spacecraft, allowing better averaging and b) get less effect from multipath.

Gordon
KE3D <geh@aip.org>

From bruninga@nadm.navy.mil Fri Dec 15 12:07:46 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id MAA08847 for <aprssig@tapr.org>; Fri,
15 Dec 1995 12:07:44 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
NAA18481; Fri, 15 Dec 1995 13:08:09 -0500
Date: Fri, 15 Dec 1995 13:08:09 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5199] Re: Grabber.exe
In-Reply-To: <199512151711.MAA00931@use.usit.net>
Message-ID: <Pine.SUN.3.91.951215130630.18340D-1000000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 15 Dec 1995, jim kerns wrote:

> >To save an APRS screen, simply run APRS from windows, press the PRINT-SCREEN
> >KEY and then exit APRS. When you bring up PAINTBRUSH, you will find the
> >APRS screen on your clipboard. Load it and have fun!
> >
> Bob I tried but it didnt save to clipboard, but I'll try a few more times.

APR REPLY: It was a surprise to me, that you do NOT hold down the SHIFT
key while pressing the PRINT-SCRN-KEY... like you normally do in DOS...

From z002594b@bcfreenet.seflin.lib.fl.us Fri Dec 15 12:56:57 1995
Received: from bcfreenet.seflin.lib.fl.us (bcfreenet.seflin.lib.fl.us
[198.78.48.20]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id MAA00312 for
<aprssig@tapr.org>; Fri, 15 Dec 1995 12:56:45 -0600 (CST)
Received: (from z002594b@localhost) by bcfreenet.seflin.lib.fl.us (8.6.12/8.6.12)
id NAA06647; Fri, 15 Dec 1995 13:54:47 -0500

Date: Fri, 15 Dec 1995 13:54:47 -0500 (EST)
From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Subject: Re: [APRSSIG:5199] Re: Grabber.exe
To: aprssig@tapr.org
cc: aprssig@tapr.org
In-Reply-To: <199512151711.MAA00931@use.usit.net>
Message-ID: <Pine.3.89.9512151338.A326-0100000@bcfreenet.seflin.lib.fl.us>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

It worked for me. Very slick!

Run APRS from Windows. Select the desired map; press PRINT SCREEN once. Switch (F10 then alt-TAB) back to windows. Load PAINTBRUSH; select EDIT then PASTE. bingo there it is! Check the results in my homepage, see below.

William Manley
z002594b@bcfreenet.seflin.lib.fl.us
<http://ourworld.compuserve.com/homepages/bmanley>

On Fri, 15 Dec 1995, jim kerns wrote:

```
> >On Thu, 14 Dec 1995, jim kerns wrote:
> >>
> >> I have loaded grabber on occassions and also at other times grpcx. Both
> >> I always use cntrl alt F1 to grab the screen when loaded grpcx. But I
> >> always get the logo screen of APRS, once I got the Beacon Screen, I have
> >> never been able to grab the screen I'm on, which is the map with calls
> >
> >APR REPLY: APRS uses dual screens. It uses the the default screen for
> >all text and uses the alternate screen for the map.
> >
> >To save an APRS screen, simply run APRS from windows, press the PRINT-SCREEN
> >KEY and then exit APRS. When you bring up PAINTBRUSH, you will find the
> >APRS screen on your clipboard. Load it and have fun!
> >
> >
> >-----
> >|DE WB4APR in Annapolis MD.|
> >-----
> Bob I tried but it didnt save to clipboard, but I'll try a few more times.
> Thanks.
> Jim
> N4PUQ>
> >
> >
>
>
```

From ke4eer@ro.com Fri Dec 15 13:04:13 1995
Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id NAA00644 for <aprssig@tapr.org>; Fri, 15 Dec 1995

13:04:09 -0600 (CST)
Received: from ts1p12.ro.com (ts1p12.ro.com [205.216.92.32]) by sh1.ro.com (8.6.9/8.6.9) with SMTP id OAA29660 for <aprssig@tapr.org>; Fri, 15 Dec 1995 14:12:50 -0600
Message-Id: <199512152012.OAA29660@sh1.ro.com>
X-Mailer: InternetWorks Mail and News 1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Fri, 15 Dec 1995 13:03:58
From: ke4eer@ro.com (William Nolle)
To: aprssig@tapr.org
Subject: Needed badly

I was just looking dreadfully at a directory full of 95 maps of the Madison county Alabama area and the next task of looking at each map to extract the center coordinates to enter into a maplist. Sure would be great if one of the prorammmers out there in APRS land would write a little program that could extract just the Map name and the 4th and 5th line and output this into the format required by APRS as ALMAP1.MAP,4TH LINE,5TH LINE in ascii format so it could then be pasted into a maplist. I find that the hardest part of mapmaking.

Bill KE4EER

From DDOBBINS@aol.com Fri Dec 15 13:05:06 1995
Received: from emout04.mail.aol.com (emout04.mail.aol.com [198.81.10.12]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id NAA00734 for <aprssig@tapr.org>; Fri, 15 Dec 1995 13:05:03 -0600 (CST)
From: DDOBBINS@aol.com
Received: by emout04.mail.aol.com (8.6.12/8.6.12) id NAA09572 for aprssig@tapr.org; Fri, 15 Dec 1995 13:34:08 -0500
Date: Fri, 15 Dec 1995 13:34:08 -0500
Message-ID: <951215133407_73662426@emout04.mail.aol.com>
To: aprssig@tapr.org
Subject: APRS TRACK HISTORY

Aloha SIG, and to Bob/APR. Ref prob saving aero-mobile event track history, I DID have LOG on, to the best of my knowledge. I may have rebooted later in the day and didn't engage it. I've auto-saved and manually saved a couple other files since the flight and was able to replay those from the saved HST file (both auto-saved and File-Save routines). Don't know why the flight HST didn't save, and nobody else saved it either, so that one's lost. Guess we'll just have to do it again.

I liked the default LOG *on* better.

Enjoy the holidays. Aloha, Dave.

From bruninga@nadm.navy.mil Fri Dec 15 13:18:40 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id NAA01072 for <aprssig@tapr.org>; Fri,

15 Dec 1995 13:18:36 -0600 (CST)

Received: (from bruninga@localhost) by greatlakes.nadn.navy.mil (8.6.12/8.6.12) id OAA20446; Fri, 15 Dec 1995 14:19:01 -0500

Date: Fri, 15 Dec 1995 14:19:01 -0500 (EST)

From: Bob Bruninga <bruninga@nadn.navy.mil>

To: aprssig@tapr.org

Subject: V# for N9VHW

Message-ID: <Pine.SUN.3.91.951215141627.20250A-100000@greatlakes>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

I am carrying a slip of paper in my shirt pocket with a V# for N9VHW of 74836. My e-mail backlog is currently 538 messages. I dont have a clue which message may be from N9VHW nor why I was giving him a #. But if he is watching, here it is... pse QSL. TNX.

|DE WB4APR in Annapolis MD.|

From ke4eer@ro.com Fri Dec 15 13:27:47 1995

Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id NAA01426 for <aprssig@tapr.org>; Fri, 15 Dec 1995 13:27:43 -0600 (CST)

Received: from ts1p2.ro.com (ts1p2.ro.com [205.216.92.22]) by sh1.ro.com (8.6.9/8.6.9) with SMTP id OAA31327 for <aprssig@tapr.org>; Fri, 15 Dec 1995 14:36:29 -0600

Message-Id: <199512152036.OAA31327@sh1.ro.com>

X-Mailer: InternetWorks Mail and News 1.1

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Date: Fri, 15 Dec 1995 13:27:37

From: ke4eer@ro.com (William Nolle)

To: aprssig@tapr.org

Subject: It happened

Well it finaslly happened. The FIRST mistake i ever made in my life, and it had to happen right here on the SIG. I know guys don't write me messages that there's already a program like that within the APRS distro. JUST FOUND IT. All these years i have been running APRS i never looked at that file and here i have been entering all that map info by hand. The MKMAPLST.BAS is just what i was wanting (Thanks Bob). Well would have been a good idea if it wasn't already their. Go ahead guys and laugh all you guys are hopefully going to get to this age also Hi Hi.

Bill KE4EER (Hiding head in shame)..

From tweedy@pc.gcs.litton.com Fri Dec 15 14:19:45 1995

Received: from lcsdns1.litton.com (lcsdns1.litton.com [139.61.7.2]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id OAA03900 for <aprssig@tapr.org>; Fri, 15 Dec 1995 14:19:40 -0600 (CST)

Received: from lcsipdp (lcsipdp.litton.com) by lcsdns1.litton.com (4.1/SMI-4.1)

id AA00974; Fri, 15 Dec 95 12:17:05 PST
Received: from pc.gcs.litton.com by lcsipdp (4.1/SMI-4.1)
id AA19848; Fri, 15 Dec 95 12:33:34 PST
Received: from Connect2 Message Router by pc.gcs.litton.com
via Connect2-SMTP 4.00; Fri, 15 Dec 95 12:20:16 -0800
Message-Id: <BEB8D13001B4ABAA@pc.gcs.litton.com>
In-Reply-To: <ABB8D13001B4ABAA>
Date: Fri, 15 Dec 95 12:14:06 -0800
From: "TWEEDY, MIKE WH:2453" <tweedy@pc.gcs.litton.com>
Sender: "TWEEDY, MIKE WH:2453" <tweedy@pc.gcs.litton.com>
Organization: Litton GC/S
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5175] Eagle AccuNa
X-Mailer: Connect2-SMTP 4.00 MHS to SMTP Gateway

Doug-

I am also a proud owner of an Eagle Accunav Sport which I bought nearly 2 years ago at a slightly higher price (ahem--\$470 back then) also from Pro Bass Shop. I am especially pleased with the high resolution graphic display which is better than the Garmins and Magellans. The only downside is battery life (roughly 2 hours on 6 alkalines) even at the low power setting. I also have good luck in my car where I mount it (w/ Velcro) to a modified metal bookend on my dash. For APRS work, I use a PacCom Tiny-2 coupled with a HTX-202 and have not had any problems. I agree that this unit has not gotten a lot of press probably because it is still more expensive than some of the \$250 units out on the market today. Glad to hear somebody else is using them---

73's de Mike KA6SPT

From tweedy@pc.gcs.litton.com Fri Dec 15 14:22:33 1995
Received: from lcsdns1.litton.com (lcsdns1.litton.com [139.61.7.2]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id OAA04022 for <aprssig@tapr.org>; Fri, 15 Dec 1995 14:22:27 -0600 (CST)
Received: from lcsipdp (lcsipdp.litton.com) by lcsdns1.litton.com (4.1/SMI-4.1)
id AA27511; Fri, 15 Dec 95 11:42:45 PST
Received: from pc.gcs.litton.com by lcsipdp (4.1/SMI-4.1)
id AA19781; Fri, 15 Dec 95 11:59:14 PST
Received: from Connect2 Message Router by pc.gcs.litton.com
via Connect2-SMTP 4.00; Fri, 15 Dec 95 11:45:55 -0800
Message-Id: <BCB8D13001B4ABAA@pc.gcs.litton.com>
In-Reply-To: <A3B8D13001B4ABAA>
Date: Fri, 15 Dec 95 11:41:54 -0800
From: "TWEEDY, MIKE WH:2453" <tweedy@pc.gcs.litton.com>
Sender: "TWEEDY, MIKE WH:2453" <tweedy@pc.gcs.litton.com>
Organization: Litton GC/S
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5184] GPS, Altitud
X-Mailer: Connect2-SMTP 4.00 MHS to SMTP Gateway

Mike-

Unless you are a military user with a crypto-key and an authorized Precise Positioning Service (PPS) access, you will be denied positioning

accuracy (using L1 and L2 signals) within 16 meters SEP. All other users (i.e. civilian) are afforded the Standard Positioning Service (SPS) which only receives the L1 signal (without ionospheric delay correction) at 1575 MHz. On top of this, the DOD has imposed Selective Availability (SA) which dithers the atomic clock reference timing and also the satellite ephemeris data. The upshot of all this is that standard civilian accuracy is purposely degraded to 100 meters horizontal accuracy, 2 sigma (i.e. 95% probability) and 168 meters vertical accuracy (also 2 sigma). It is therefore not surprising to be off by more than 500 feet in altitude at any one time. The SA imposed error slowly varies over time, so over a short term it may give fairly accurate DIFFERENCES in altitude rather than accurate absolute altitude. I hope this clarifies the situation---

73's de Mike KA6SPT

From jleonard@tbcnet.com Fri Dec 15 14:25:12 1995
Received: from tbc2.tbcnet.com (root@tbc2.tbcnet.com [205.199.1.5]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id OAA04132 for <aprssig@tapr.org>; Fri, 15 Dec 1995 14:25:06 -0600 (CST)
Received: from jbleonard.tbcnet.com (jbleonard.tbcnet.com [205.199.1.129]) by tbc2.tbcnet.com (8.6.12/8.6.12) with SMTP id OAA21324 for <aprssig@tapr.org>; Fri, 15 Dec 1995 14:25:15 -0600
Date: Fri, 15 Dec 1995 14:25:15 -0600
Message-Id: <199512152025.OAA21324@tbc2.tbcnet.com>
X-Sender: jleonard@tbcnet.com
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: jleonard@tbcnet.com (John B. Leonard)
Subject: Re: [APRSSIG:5206] Needed badly

>I was just looking dreadfully at a directory full of 95 maps of the Madison
>county Alabama area and the next task of looking at each map to extract the
>center coordinates to enter into a maplist. Sure would be great if one of the
>prorammmers out there in APRS land would write a little program that could
>extract just the Map name and the 4th and 5th line and output this into the
>format required by APRS as ALMAP1.MAP,4TH LINE,5TH LINE in ascii
>format so it could then be pasted into a maplist. I find that the hardest part
>of mapmaking.

>
>Bill KE4EER
>
>
>

Bill, the MKMAPLST.BAS program does just that! Bob included it into the APRS distro copy. Just put all your maps and MKMAPLST.BAS in an otherwise empty directory, and it does it for you.

73's
Barry

J Barry Leonard
DeKalb IL
E-MAIL: jleonard@tbcnet.com

From schiers@ibm.net Fri Dec 15 14:55:25 1995
Received: from smtp-gw01.ny.us.ibm.net ([165.87.194.252]) by sys1.tapir.org
(8.7.2/8.7.2) with SMTP id OAA05587 for <aprssig@tapir.org>; Fri, 15 Dec 1995
14:55:20 -0600 (CST)
Received: (from uucp@localhost) by smtp-gw01.ny.us.ibm.net (8.6.9/8.6.9) id
UAA26559 for <aprssig@tapir.org>; Fri, 15 Dec 1995 20:55:16 GMT
Message-Id: <199512152055.UAA26559@smtp-gw01.ny.us.ibm.net>
Received: from slip230-91.mo.us.ibm.net(129.37.230.91) by smtp-gw01.ny.us.ibm.net
via smap (V1.3mjr)
id smamacCrx; Fri Dec 15 20:55:05 1995
Date: Fri, 15 Dec 95 20:53:52 EST
From: schiers@ibm.net (hasan schiers)
Reply-To: schiers@ibm.net (hasan schiers)
To: aprssig@tapir.org
X-Mailer: hasan schiers's PMMail v1.1
Subject: Re: Ultimeter 2000/APRS74e CRASHES

Bob,

APRS Version 7.4e and several before it (c & d), do NOT work properly
with the U-2000. The program crashes badly as soon as it receives data
from the wx station. This happens from either the map or the P list.

Here is the info from the screen:

```
LM,PM: 0      0
a,I,J,K: 55  1  1 78
X,Y,X1,Y1 1102.345  98.53574 205.2888 16.40635
A$:
c$:
ES$Finished DrwUnit
000PS! ERR number 6  Hit ENTER to return to DOS?
```

Below is a sample of the data sentence coming from the U-2000. The U-II works
perfectly. Any suggestions (like I might be doing something stupid) or feed
back is most welcome. I am in the DATA LOGGER MODE, by the way.

```
!!004CFFE70149000027FD02A8-----015C037B
!!004CFFE7014A000027FD02A8-----015C037B
!!004CFFE7014A000027FD02A8-----015C037B
!!004BFFDE014A000027FD02A8-----015C037B
!!004BFFDE014A000027FD02A8-----015C037B
!!004BFFDE014A000027FD02A8-----015C037B
!!0049FFE5014A000027FD02A8-----015C037B
!!0049FFE5014A000027FD02A8-----015C037B
!!0049FFE5014A000027FD02A8-----015C037B
!!0049FFE5014A000027FD02A8-----015C037B
!!0048FFE5014A000027FD02A8-----015C037B
```

!!0048FFE5014A000027FD02A8-----015C037B

It also appears that the initial attempt to grab wx data gathers corrupted data...I have seen the version 7.4c run for about 5 mins in the P list mode before crashing in the same manner. The extended running with 7.4c only happened once. The barometric pressure readings were correct with 7.4c during the one time it ran for several mins before crashing. I have no other accessories (no humidity, etc).

Hope this helps... and the U-2000 is AMAZING!!!!

robert "hasan" schiers

Ham Radio Packet: n0an@n0an.ia.usa.noam

From ke4eer@ro.com Fri Dec 15 15:25:19 1995

Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id PAA07039 for <aprssig@tapir.org>; Fri, 15 Dec 1995 15:25:15 -0600 (CST)

Received: from ts2p12.ro.com (ts2p12.ro.com [205.216.92.62]) by sh1.ro.com (8.6.9/8.6.9) with SMTP id QAA01871 for <aprssig@tapir.org>; Fri, 15 Dec 1995 16:19:25 -0600

Message-Id: <199512152219.QAA01871@sh1.ro.com>

X-Mailer: InternetWorks Mail and News 1.1

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Date: Fri, 15 Dec 1995 15:12:53

From: ke4eer@ro.com (William Nolle)

To: aprssig@tapir.org

Subject: 100K maps

I have just uploaded a map file called Almadiso.zip both the zip and txt files for those users that never have enough maps (Like me). The maps cover Madison county Alabama and has 92 maps, mosr are 2 mile and in the center of Huntsville they are 1 mile maps. First time i did a whole county!.

Bill KE4EER

From bruninga@nadn.navy.mil Fri Dec 15 16:39:11 1995

Received: from greatlakes.nadn.navy.mil (greatlakes.nadn.navy.mil [131.121.9.4]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id QAA10088 for <aprssig@tapir.org>; Fri, 15 Dec 1995 16:39:07 -0600 (CST)

Received: (from bruninga@localhost) by greatlakes.nadn.navy.mil (8.6.12/8.6.12) id RAA23802; Fri, 15 Dec 1995 17:39:32 -0500

Date: Fri, 15 Dec 1995 17:39:31 -0500 (EST)

From: Bob Bruninga <bruninga@nadn.navy.mil>

To: aprssig@tapir.org

Subject: Re: [APRSSIG:5206] Needed badly

In-Reply-To: <199512152012.0AA29660@sh1.ro.com>

Message-ID: <Pine.SUN.3.91.951215173653.23668C-100000@greatlakes>

MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 15 Dec 1995, William Nolle wrote:

> center coordinates to enter into a maplist. Sure would be great if one of the
> programmers out there in APRS land would write a little program that could
> extract just the Map name and the 4th and 5th line and output this into the
> format required by APRS as ALMAP1.MAP,4TH LINE,5TH LINE in ascii

WELCOME to the WORLD OF APRS, Bill. (hi hi) That program has been in every copy of APRS for the last year. It is called something like MAKELIST.bas I havent used it since the night I wrote it, so I dont remember the exact name, and I hope it still works. You will need to re-arrange the maps in your desired heirarchy, but it will build a MAPLIST...

From bruninga@nadm.navy.mil Fri Dec 15 18:07:06 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id SAA14033 for <aprssig@tapir.org>; Fri,
15 Dec 1995 18:07:03 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
TAA24559; Fri, 15 Dec 1995 19:07:29 -0500
Date: Fri, 15 Dec 1995 19:07:27 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapir.org
Subject: MAPLISTS and Bill's challenge!
Message-ID: <Pine.SUN.3.91.951215185948.24450B-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

For someone that wants a nice little programming challenge, we need to take the code in MKMAPLST.bas and modify it so that it not only scans all MAPS and builds a maplist,

BUT THAT IT BUILDS A CORRECT ONE!

This should be simple. Just scan through all the maps collecting their centers and their ranges. Then use some logic to sort them according to the following approximate rules:

- 1) Sort first alphabetically (this just sort of assures that when all else is taken into tconsideration, comparable maps of the same state will be in approximately the same place..
- 2) Bigger ranges first.
- 3) Any map that fits WITHIN another should come later. (Note, this includes both the CENTER location AND the range must be considered)

With a program like that EVERYONE, including BILL's life will be easier. It should be "simple" to do

|DE WB4APR in Annapolis MD.|

From laborde@kilroy.jpl.nasa.gov Fri Dec 15 18:10:49 1995
Received: from kilroy (kilroy.jpl.nasa.gov [128.149.63.2]) by sys1.tappr.org
(8.7.2/8.7.2) with SMTP id SAA14103 for <aprssig@tappr.org>; Fri, 15 Dec 1995
18:10:46 -0600 (CST)
Received: from [128.149.100.84] (kd6msm.jpl.nasa.gov [128.149.100.84]) by kilroy
(8.6.10/8.6.6) with SMTP id QAA04371 for <aprssig@tappr.org>; Fri, 15 Dec 1995
16:10:23 -0800
Message-Id: <v01510101acf7baef5bfa@[128.149.100.84]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Fri, 15 Dec 1995 16:10:50 -0800
To: aprssig@tappr.org
From: laborde@kilroy.jpl.nasa.gov (Gregory R. LaBorde)
Subject: SPRE Beacon with KPC-3

My experience with my KPC-3 is that there is NO way to change the UNPROTO
address from BEACON for _BEACONING._ Changing UNPROTO only works for
"manual" [UI] packets. In other words, I can set:

Unproto DM04we v r0mir

If I type:

cmd:k
 blah blah blah blah

This gets transmitted:

KD6MSM>R0MIR>DM04WE: blah blah blah blah

However, if I let it beacon, I get:

KD6MSM>R0MIR>BEACON: Hi!

Can anyone way any different?

-Greg

--

| | |
|-----------------------------------|--|
| Gregory R. LaBorde - KD6MSM | Internet: laborde@kilroy.jpl.nasa.gov |
| Jet Propulsion Laboratory | AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org |
| Systems Engineering - Galileo OET | Packet : KD6MSM@W6VIO.#SOCA.CA.USA.NA |
| M/S 264-805 4800 Oak Grove Drive | Phone : (818) 393-1107 |
| Pasadena, CA 91109 | |

From n8mwz@alpha.wcoil.com Fri Dec 15 20:20:57 1995
Received: from alpha.wcoil.com (alpha.wcoil.com [205.133.95.1]) by sys1.tappr.org
(8.7.2/8.7.2) with SMTP id UAA17865 for <aprssig@tappr.org>; Fri, 15 Dec 1995

20:20:52 -0600 (CST)

Received: from term1-2.wcoil.com (term1-2.wcoil.com [205.133.95.102]) by alpha.wcoil.com (8.6.9/8.6.9) with SMTP id QAA10394; Fri, 15 Dec 1995 16:54:29 -0500

Date: Fri, 15 Dec 1995 16:54:29 -0500

Message-Id: <199512152154.QAA10394@alpha.wcoil.com>

X-Sender: n8mwz@alpha.wcoil.com (Unverified)

X-Mailer: Windows Eudora Version 1.4.3

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

To: aprssig@tapr.org, "Bob Bruninga" <bruninga@nadm.navy.mil>, "Fred Vobbe" <gnbc@alpha.wcoil.com>

From: n8mwz@alpha.wcoil.com (Bob Hartman)

Subject: Re: [APRSSIG:5182] MS report

>You may be suprised at what you hear, if you can handle the withdrawal
>symptoms of NOT seeing all that other activity!

Here in NW OHIO, we are used to only seeing the same area locals, except for band openings. Without the ability to network into other populated areas, APRS can get boring. Consider yourselves lucky if you live in an area where the hams are willing to pitch in and/or open their wallets. I refuse to personally fund the two to four additional DIGIs needed to connect our area to more populated areas so it looks like it may not get done. Oh well, it makes for a convenient one line message drop for the area... {sigh}

From w5rkn@amsat.org Fri Dec 15 21:04:21 1995

Received: from zoom.bga.com (root@zoom.bga.com [198.3.118.20]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id VAA18974 for <aprssig@tapr.org>; Fri, 15 Dec 1995 21:04:17 -0600 (CST)

Received: from [204.251.33.22] (jake-5f.ip.realtime.net [204.251.33.22]) by zoom.bga.com (8.6.12/8.6.10) with SMTP id VAA27352 for <aprssig@tapr.org>; Fri, 15 Dec 1995 21:04:11 -0600

X-Sender: rparsons@bga.com

Message-Id: <v02130500acf7e3fe078b@[204.96.0.43]>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Date: Fri, 15 Dec 1995 21:04:14 -0600

To: aprssig@tapr.org

From: w5rkn@amsat.org (Ronald G. Parsons)

Subject: APRtrak transmit rate

I timed the interval between transmissions of a packet by APRtrak after setting MODE-SPACE and POSrate to 30. The number to the left of SAT OVERLAY is 30/30.

The time between transmissions was: 9, 20, 38, 79, 98, 64, 320.

This is close to a doubling: 10, 20, 40, 80, 160, 320 if I ignore the 98. So it appears APRtrak is working correctly

This time measurement was without any packets received from the digipeater.

With the duration of a shuttle pass being about 600 seconds, this gives very few packets during the "prime" part of the pass.

Is there a way to get APRtrak to beacon every, say, 30 seconds without using the manual XMIT key.

Ron W5RKN

also:
rparsons@bga.com

From bruninga@nadm.navy.mil Fri Dec 15 21:35:58 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id VAA19956 for <aprssig@tapr.org>; Fri,
15 Dec 1995 21:35:54 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
WAA25135; Fri, 15 Dec 1995 22:36:20 -0500
Date: Fri, 15 Dec 1995 22:36:19 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapr.org
Subject: AUTOWX program
Message-ID: <Pine.SUN.3.91.951215223041.25096C-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I just discovered the first AUTOWX program in the area... sort of by accident... I notice the new WX station out in the middle of the river. I been trying for a week to send him a message asking how he did that and never got any ACKS! I checked the HEARD log, and he was on the air...

Well, now I finally tracked him down and found that he was running the AUTOWX program. It apparently puts out an APRS WX report AS IF IT CAME FROM AN APRS station.

The problem is, that it begins its DATE-TIME-POSIT report with an @. And that means it is a full APRS station, capable of sending and receiving MESSAGES. That software should be using a "/" instead of a "@" so that everyone will know that it is NOT fully APRS compatible. I'm trying to get through to the author of AUTOWX to ask him to change that. Is anyone noticing any other things I should discuss with him?

P.S. He was in the middle of the river because he was using seconds instead of MINUTES for his posit....

|DE WB4APR in Annapolis MD.|

From bruninga@nadm.navy.mil Fri Dec 15 21:49:59 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])

by sys1.tapir.org (8.7.2/8.7.2) with SMTP id VAA20371 for <aprssig@tapir.org>; Fri,
15 Dec 1995 21:49:56 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadn.navy.mil (8.6.12/8.6.12) id
WAA25158; Fri, 15 Dec 1995 22:50:22 -0500
Date: Fri, 15 Dec 1995 22:50:21 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
To: aprssig@tapir.org
cc: amsat-bb@amsat.org
Subject: Re: APRtrak transmit rate
In-Reply-To: <v02130500acf7e3fe078b@[204.96.0.43]>
Message-ID: <Pine.SUN.3.91.951215223721.25096D-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 15 Dec 1995, Ronald G. Parsons wrote:

> I timed the interval between transmissions of a packet by APRtrak in
> MODE-SPACE and POSrate to 30.
> The time between transmissions was: 9, 20, 38, 79, 98, 64, 320.
> So it appears APRtrak is working correctly
>
> Is there a way to get APRtrak to beacon every, say, 30 seconds without
> using the manual XMIT key.

APR REPLY: The POS-RATE command is a hold over from APRS and should be
removed from APRtrak. Your POSRATE will ALWAYS decay in APRtrak to
minimize QRM, but there is a mitigating circumstance:

IN SPACE mode in APRtrak, your system is ARMED. This means that if
it ever HEARS a packet from the SPACE digipeater, then your DECAY timer
will be RESET to the minimum of 10 seconds again. This means you may
have decayed to 15 minutes between your posits, but when the spacecraft
comes overhead, BINGO you restart your POSIT.

CONVERSLY: Once your station SEES ITSELF, you are put into the
"CONGRATULATIONS" mode and your decay timer will instantly go to over 9
minutes. No need to keep transmitting right?

You may force a POSIT at any time with the XMT-BEACON or XMT-POSIT command.

Also note that your station must hear a packet FROM the spacecraft
CALLSIGN, not just a packet digipeated BY the spacecraft...

| DE WB4APR in Annapolis MD. |

From jeff.wallach@drig.com Fri Dec 15 22:23:41 1995
Received: from mail.holonet.net (root@guardian.holonet.net [198.207.169.11]) by
sys1.tapir.org (8.7.2/8.7.2) with SMTP id WAA21304 for <aprssig@tapir.org>; Fri, 15
Dec 1995 22:23:35 -0600 (CST)
Received: from drig (root@localhost) by mail.holonet.net with UUCP

id UAA17242; Fri, 15 Dec 1995 20:03:58 -0800
Received: by drig (PCB-UUCP 1.1f)
id 38EB94; Fri, 15 Dec 95 21:58:40 -0600
To: aprssig@tapr.org
Subject: Paccomm HSP and Tiny 2 configuration assistance
From: jeff.wallach@drig.com (Jeff Wallach)
Message-ID: <59.47110.99.0C38EB94@drig.com>
Date: Fri, 15 Dec 95 20:56:00 -0600
Organization: Dallas Remote Imaging Group 214-394-7325 <info@drig.com>

>From N5ITU, Dallas Remote Imaging Group:

Paccomm HSP Switch and Mode with APRS74E
=====

Here is an open question to anyone that may have the following configuration:

Paccomm Tiny-2 MK-2 with GPS EPROM dated 4/15/94

Paccomm Hardware Single Port Switch
APRS74E

I have setup the APRS74E for HSP mode
(after doing an ALT Save, it did as for registration number and also GPS registration number...hsp turned to HSP).

Connecting my Magellan 5000 DLX handheld to the serial port COM1 of which APRS is configured for, the NMEA 183D data streams in with no problem. doing an O C G , the GPS data can be logged to the NMEALog and show my position.

Looking at the RS232 flow, the RTS, RD, CTS, and DTR showed active (toggling F8 HSP did indeed toggle the DTR line high and low)

However, if I hookup the Paccomm HSP cable (DB9 of Black cable to Magellan, Y portion of Gray cable to Paccomm Tiny2, and other end of grey cable to the RS232 PC cable), the RTS, CTS, and DTR show no voltage at all -- only the receive light is flashing once every 2 seconds to show the NMEA data is coming out of the GPS unit.

APRS tries to toggle between NMEA mode and TNC mode, with HSP port Time Outs...

If I go into Other COMM TNC mode, the unit usually locks up immediately....similarly, going into GPS mode it just sits there...no data show in the APRS application.

then it usually locks up the PC, and a re-boot is required.

There is 6 volts on Pin 6 of the DB9 RS232 connector on the Paccomm, so that should drive the transistor switch o.k.

Only thought may be the drive level of the Magellan 5000 DLX is too low.

Comments or similar observations would be appreciated.

Jeff Wallach
N5ITU
Dallas Remote Imaging Group

From n2czf@gate.net Fri Dec 15 22:39:28 1995
Received: from osceola.gate.net (osceola.gate.net [199.227.0.18]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id WAA21820 for <aprssig@tapir.org>; Fri, 15 Dec 1995 22:39:22 -0600 (CST)
From: n2czf@gate.net
Received: from 199.227.125.176 (wpbf12-48.gate.net [199.227.125.176]) by osceola.gate.net (8.6.12/8.6.9) with SMTP id XAA24508 for <aprssig@tapir.org>; Fri, 15 Dec 1995 23:40:23 -0500
Date: Fri, 15 Dec 1995 23:40:23 -0500
Message-Id: <199512160440.XAA24508@osceola.gate.net>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Subject: Central and SW Florida APRS Finally!
To: aprssig@tapir.org
X-Mailer: SPRY Mail Version: 04.00.06.17

I just wanted to comment that tonight I saw 4 stations from the central and SW portions of Florida for the first time. The Seabring area had 2 amateurs and I also saw another 2 in the Port Charlotte area. These are VERY important areas for APRS growth since they offer some very optimum networking capabilities. A solid East<->West link has not been established yet due to the 130+ mile distance and low population density of the area. In case of a major weather emergency where APRS can be of use this East-West link is vital since must of what hits one coast will very often cross the state and hit the other.

If anyone from the sig is from this area please contact me for further discussion about local activity.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

From wricharz@ix.netcom.com Fri Dec 15 22:43:50 1995
Received: from ix11.ix.netcom.com (ix11.ix.netcom.com [199.182.120.11]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id WAA21869 for <aprssig@tapir.org>; Fri, 15 Dec 1995 22:43:47 -0600 (CST)
Received: from ix-cha-nc1-13.ix.netcom.com by ix11.ix.netcom.com (8.6.12/SMI-4.1/Netcom)
id UAA23696; Fri, 15 Dec 1995 20:42:00 -0800
Message-Id: <199512160442.UAA23696@ix11.ix.netcom.com>

X-Sender: wricharz@ix.netcom.com
X-Mailer: Windows Eudora Light Version 1.5.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Fri, 15 Dec 1995 23:43:14 -0500
To: aprssig@tapr.org
From: William Richarz <wicharz@ix.netcom.com>
Subject: Re: [APRSSIG:5219] APRtrak transmit rate

At 09:20 PM 12/15/95 -0600, you wrote:

>I timed the interval between transmissions of a packet by APRtrak after setting
>MODE-SPACE and POSrate to 30. The number to the left of SAT OVERLAY is 30/30.

Was wondering where you can DL the APRtrak software?

Bill Richarz <WA4VAF>
wicharz@ix.netcom.com

From scottm@sierra.net Fri Dec 15 22:48:00 1995
Received: from diamond.sierra.net (root@diamond.sierra.net [204.94.39.235]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id WAA21916 for <aprssig@tapr.org>; Fri, 15
Dec 1995 22:47:55 -0600 (CST)
Received: from [204.94.234.237] by diamond.sierra.net with SMTP id AA01213
(5.67b8/IDA-1.5 for <aprssig@tapr.org>); Fri, 15 Dec 1995 20:47:45 -0800
Message-Id: <199512160447.AA01213@diamond.sierra.net>
X-Sender: scottm@diamond.sierra.net
X-Mailer: Windows Eudora Light Version 1.5.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Fri, 15 Dec 1995 20:46:15 -0800
To: aprssig@tapr.org
From: Scott Miller <scottm@sierra.net>
Subject: I/O Glitch

Hi SIG, Scott here in Tahoe City

I'm wondering if anyone can tell me what I'm doing wrong?

It seems like just about every time I quit aprs to do something else
like get E-Mail when I start aprs again I get an I/O Glitch.

seems like the TNC -a PICO 2 port w/internal GPS allways defaults to
9600 baud on port one and I've been configuring it 1200 baud for raido,
4800 baud for port one-the rs 232 port-and 4800 for port 2-the GPS port.

Can anyone tell me if it's ok to run the rs 232 port -1- at 9600

or what I'm doing wrong.

Thanks very much and 73 Scott

From mickey@intellinet.com Fri Dec 15 23:20:27 1995
Received: from intellinet.com (root@sibyl.intellinet.com [199.2.240.10]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id XAA23232 for <aprssig@tapr.org>; Fri, 15
Dec 1995 23:20:24 -0600 (CST)
Received: from IntelliNet.intellinet.com (md-007.bat.intellinet.com
[204.214.231.73]) by intellinet.com (8.6.12/8.6.9) with SMTP id XAA15600 for
<aprssig@tapr.org>; Fri, 15 Dec 1995 23:23:17 -0600
Message-Id: <199512160523.XAA15600@intellinet.com>
X-Sender: mickey@intellinet.com

X-Mailer: Windows Eudora Version 1.4.3
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Fri, 15 Dec 1995 23:17:14 -0600
To: aprssig@tapr.org
From: mickey@intellinet.com (mickey esposito)
Subject: Re: [APRSSIG:5204] Re: Grabber.exe

>Am I missing something or will APRS finally run under windows, especially
Win95?
For sure?

From laborde@kilroy.jpl.nasa.gov Sat Dec 16 06:01:43 1995
Received: from kilroy.jpl.nasa.gov (kilroy.jpl.nasa.gov [128.149.63.2]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id GAA08013 for <aprssig@tapr.org>; Sat, 16
Dec 1995 06:01:40 -0600 (CST)
Received: (from laborde@localhost) by kilroy.jpl.nasa.gov (8.6.10/8.6.6) id
EAA16982 for aprssig@tapr.org; Sat, 16 Dec 1995 04:01:34 -0800
Date: Sat, 16 Dec 1995 04:01:34 -0800
From: Greg LaBorde (313) <laborde@kilroy.jpl.nasa.gov>
Message-Id: <199512161201.EAA16982@kilroy.jpl.nasa.gov>
To: aprssig@tapr.org
Subject: APRStrak in the scheme of things...

Where does APRStrak fit into the scheme of things? Is it a cut-down APRS with
some satellite-specific features added? Does it require an additional/different
registration than APRS?

-Greg

From kheyboer@pinegov.co.pinellas.fl.us Sat Dec 16 06:30:32 1995
Received: from pinegov (pinegov.co.pinellas.fl.us [136.174.202.1]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id GAA08868 for <aprssig@tapr.org>; Sat, 16
Dec 1995 06:30:28 -0600 (CST)
Received: by pinegov (5.0/SMI-SVR4)
id AA16843; Sat, 16 Dec 1995 12:27:30 +0000
Errors-To: root@pinegov.co.pinellas.fl.us
Date: Sat, 16 Dec 1995 12:27:29 +0000 (EST)
From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5218] Re: MS report
In-Reply-To: <199512152154.QAA10394@alpha.wcoil.com>
Message-Id: <Pine.SUN.3.91.951216122243.16774A-1000000@pinegov>
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 15 Dec 1995, Bob Hartman wrote:

> >You may be suprised at what you hear, if you can handle the withdrawal
> >symptoms of NOT seeing all that other activity!
>

> Here in NW OHIO, we are used to only seeing the same area locals,
> except for band openings. Without the ability to network into other
> populated areas, APRS can get boring. Consider yourselves lucky if
> you live in an area where the hams are willing to pitch in and/or
> open their wallets. I refuse to personally fund the two to four
> additional DIGIs needed to connect our area to more populated areas
> so it looks like it may not get done. Oh well, it makes for a
> convenient one line message drop for the area... {sigh}

>
>

Bob...have you considered talking to your local emergency management about APRS? Get with your local EC and see about using APRS during emergency situations, then convince the government to buy the equipment for you under the auspices of RACES. Another option is to contact your local hospital administrator. Most hospitals have money set aside for emergency communications. Show them how APRS can be used to track disaster supply centers and distribution, as well as track field personnel. Then get them to buy the digi, transmitter, and put it on top of their building.

Just a couple of suggestions on how to get funded, good luck.

73 de Kevin KD4UYR
Asst. Emergency Coordinator
Pinellas County, FL

From KD4EMI@aol.com Sat Dec 16 06:35:29 1995
Received: from mail06.mail.aol.com (mail06.mail.aol.com [152.163.172.108]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id GAA09287 for <aprssig@tapir.org>; Sat, 16 Dec 1995 06:35:26 -0600 (CST)
From: KD4EMI@aol.com
Received: by mail06.mail.aol.com (8.6.12/8.6.12) id HAA18147 for aprssig@tapir.org; Sat, 16 Dec 1995 07:34:54 -0500
Date: Sat, 16 Dec 1995 07:34:54 -0500
Message-ID: <951216073453_55802570@mail06.mail.aol.com>
To: aprssig@tapir.org
Subject: APRS AIRMOBILE

I was asked to post this msg for KA40PZ to the sig.

KA40PZ will be travelling APRS Mobile today from Fort Lauderdale to Atlanta via AIR MOBILE.

HE frequently flies around here in South FL and we have found that reliable connects occur as far away as 90 miles.

HE would like to invite anyone that see's him to connect to his TNC mailbox KA40PZ-2 and leave a brief msg.

There is a possiblilty that KC4NMY may be the callsign of the AIRMOBILE. So, if you see a plane on APRS in the Atlanta/FL region, try and give it a connect. 73 Mike KD4EMI

From jkerns@usit.net Sat Dec 16 08:03:13 1995
Received: from use.usit.net (use.usit.net [199.1.48.3]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id IAA11817 for <aprssig@tapir.org>; Sat, 16 Dec 1995 08:03:09 -0600 (CST)
Received: from bway-slip81.dynamic.usit.net (bway-slip81.dynamic.usit.net [204.194.172.127]) by use.usit.net (8.6.10/8.6.9) with SMTP id JAA07599 for <aprssig@tapir.org>; Sat, 16 Dec 1995 09:05:11 -0500
Message-Id: <199512161405.JAA07599@use.usit.net>
X-Sender: jkerns@usit.net (Unverified)
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Fri, 15 Dec 1995 21:00:13 -0500
To: aprssig@tapir.org
From: jkerns@usit.net (jim kerns)
Subject: Re: [APRSSIG:5205] Re: Grabber.exe

>It worked for me. Very slick!

>

>Run APRS from Windows. Select the desired map; press PRINT SCREEN once.
>Switch (F10 then alt-TAB) back to windows. Load PAINTBRUSH; select EDIT
>then PASTE. bingo there it is! Check the results in my homepage,
>see below.

>

>William Manley
>z002594b@bcfreenet.seflin.lib.fl.us
><http://ourworld.compuserve.com/homepages/bmanley>

>

>William: Thanks for Tip. You and APR got me going. On a color printer,
APRS map sure looks black. Hi.

73 Jim N4PUQ>

>

>

From AA8JK@aol.com Sat Dec 16 10:14:28 1995
Received: from mail06.mail.aol.com (mail06.mail.aol.com [152.163.172.108]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id KAA15213 for <aprssig@tapir.org>; Sat, 16 Dec 1995 10:14:25 -0600 (CST)
From: AA8JK@aol.com
Received: by mail06.mail.aol.com (8.6.12/8.6.12) id LAA10702 for aprssig@tapir.org; Sat, 16 Dec 1995 11:13:53 -0500
Date: Sat, 16 Dec 1995 11:13:53 -0500
Message-ID: <951216111351_91890754@mail06.mail.aol.com>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:5218] Re: MS report

Did you get a copy of the TAWG newsletter for 12/95 via internet?

Some folks did not get it for some reason.

There will be a TAWG meeting and APRS presentation at the Packet Symposium, 20 JAN 96, in Middletown, Ohio. I'll put out more info later.

73,

Steve Caesar

AA8JK

AA8JK@aol.com

From barrettd@crpl.cedar-rapids.lib.ia.us Sat Dec 16 10:36:04 1995
Received: from CRPL.CEDAR-RAPIDS.LIB.IA.US (crpl.cedar-rapids.lib.ia.us
[198.134.138.1]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id KAA16062 for
<aprssig@tapr.org>; Sat, 16 Dec 1995 10:36:00 -0600 (CST)
From: barrettd@crpl.cedar-rapids.lib.ia.us
Message-Id: <199512161636.KAA16062@sys1.tapr.org>
Received: from ppp-106.cedar-rapids.lib.ia.us by CRPL.CEDAR-RAPIDS.LIB.IA.US with
SMTP;
Sat, 16 Dec 1995 9:42:02 -0600 (CST)
X-Sender: barrettd@crpl.cedar-rapids.lib.ia.us
X-Mailer: Windows Eudora Light Version 1.5.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sat, 16 Dec 1995 09:40:53 -0600
To: aprssig@tapr.org
Subject: APRS??Z and NEXRAD Xmas 2000 Wish

At 01:42 AM 95-12-15 EST, you wrote:

>The NEXRAD site was hard-coded into the IAQUAD map that I did about 6 months
>ago. Are you sure it was ON THE AIR?

This is from my p-list

p,W0BXR-2 040632 @291937/4136.77N/09035.03W WPHG7230/ NWS NEXRAD site @
Davenport

> I do know that the APRS group in the Quad
>Cities has a station operational at the NWS Office there (I visited it in
>April). I doubt that they have the RMC data available there, however the
>suggestion about adding that feature to APRS is a good one! Perhaps Bob or
>Keith will write a call-out feature to import the data into the local terminal
>display (but not rebroadcasting the data!)

My thought would be APRS recognizing the NEXRAD site specifically in the
setup and thereby a capability to grab an RMC data file called maybe
LATEST.RMC when a station did an ops query NEXRAD

>Only problem we had with RMC here in Kansas City was the BBS at the NWS
site was
>getting radar updates every 15 minutes but it took as much as three hours
to get
>the files forwarded to the other BBS's in town so the data was WORTHLESS!

Dgipeating a 4k file would take some time I imagine

>73 de Jim, KU0G
>(The Great Lakes are in south central Missouri, AREN'T they?)

Thanks for the response Jim!

I'm 4 hours SW of the Great Lakes and 4 Hours SE of the Iowa Great Lakes

barrett

From gerry@cs.tamu.edu Sat Dec 16 11:02:55 1995
Received: from cs.tamu.edu (clavin.cs.tamu.edu [128.194.130.106]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id LAA16619 for <aprssig@tapir.org>; Sat, 16 Dec 1995 11:02:51 -0600 (CST)
Received: from solar.cs.tamu.edu (2961@solar.cs.tamu.edu [128.194.132.1]) by cs.tamu.edu (8.6.10/8.6.4) with ESMTP id LAA00765 for <aprssig@tapir.org>; Sat, 16 Dec 1995 11:02:13 -0600
From: Gerald J Creager <gerry@cs.tamu.edu>
Received: (gerry@localhost) by solar.cs.tamu.edu (8.6.10/8.6.4) id LAA09911 for aprssig@tapir.org; Sat, 16 Dec 1995 11:02:06 -0600
Message-Id: <199512161702.LAA09911@solar.cs.tamu.edu>
Subject: Re: [APRSSIG:5184] GPS, Altitude and general thoughts.
To: aprssig@tapir.org
Date: Sat, 16 Dec 1995 11:02:06 -0600 (CST)
In-Reply-To: <951214220042_54641008@mail04.mail.aol.com> from "KD4EMI@aol.com" at Dec 14, 95 09:18:37 pm
X-Mailer: ELM [version 2.4 PL24]
Content-Type: text

KD4EMI@aol.com sez:

>
> Here is the reason why I write. In the year that I have had my garmin,
> I dont think Ive EVER got a accurate altitude reading. EVEN if the
> accuracy on the sat screen is 50 feet. (which it has been). The accuracy
> on the +/- altitude screen is less than 100 feet sometimes and yet
> the darn thing never really seems to come close. Now, that really doesnt
> bother me except when I got together with a few other aprs guy and we held
> our GPS'S next to each other, I mentioned the altitude. HIS Magellen
> (5000D) I think it was) was fairly accurate...Actually, it was really
> accurate
> and changed perfectly when we went up ramps and things on the highway.
>
> I mentioned it to him, and he stated that he thought this was normal
> operation for GPS'S and was suprised at my reading.
>
> Now...whats the deal..How do I know for example that the LOCATION
> is even close. (I CAN GUESS BASED ON THE MOBILES PLOT THAT
> IT IS OK THOUGH-But thats a hell of a way to verify it)

What you're seeing is normal operation for an L1-only, non-carrier-phase corrected receiver. The variability in altitude can be significant (I don't have ICD-GPS-200 at home and won't quote specs off the top of my head today...) but your long term average of altitude, using acceptable GDOP or

VDOP values for the recorded fixes should be on the order of +/-5 meters
(warning: Just finished Finals. Brain fogged)

In low dynamic states, with consumer-grade receivers using minimally acceptable algorithms, you're probably doing pretty well with horizontal accuracies. For my GPS-55AVD, in the airplane, I get reasonable correlation with the altimeter. In the car, I can usually determine I'm somewhere in orbit about earth! The dynamics and the change in altitude inflight make a big change in dynamic (3-D) position accuracy.

73, gerry N5JXS
n5jxs@tamu.edu

From ke4eer@ro.com Sat Dec 16 11:08:25 1995
Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tappr.org (8.7.2/8.7.2) with SMTP id LAA16968 for <aprssig@tappr.org>; Sat, 16 Dec 1995 11:08:23 -0600 (CST)
Received: from ts2p17.ro.com (ts2p17.ro.com [205.216.92.67]) by sh1.ro.com (8.6.9/8.6.9) with SMTP id MAA31045 for <aprssig@tappr.org>; Sat, 16 Dec 1995 12:01:16 -0600
Message-Id: <199512161801.MAA31045@sh1.ro.com>
X-Mailer: InternetWorks Mail and News 1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sat, 16 Dec 1995 10:54:28
From: ke4eer@ro.com (William Nolle)
To: aprssig@tappr.org
Subject: N4YCI

Lynn N4YCI, I attempted to e-mail you about the maps but twice the message came back as No Such Address?.

I have your maps made but don't know how you want me to get them to you!.

Bill KE4EER

From BenWS5R@aol.com Sat Dec 16 11:21:08 1995
Received: from mail04.mail.aol.com (mail04.mail.aol.com [152.163.172.53]) by sys1.tappr.org (8.7.2/8.7.2) with SMTP id LAA17485 for <aprssig@tappr.org>; Sat, 16 Dec 1995 11:21:05 -0600 (CST)
From: BenWS5R@aol.com
Received: by mail04.mail.aol.com (8.6.12/8.6.12) id MAA18062 for aprssig@tappr.org; Sat, 16 Dec 1995 12:20:33 -0500
Date: Sat, 16 Dec 1995 12:20:33 -0500
Message-ID: <951216122030_55931847@mail04.mail.aol.com>
To: aprssig@tappr.org
Subject: Re: [APRSSIG:5141] METEOR SCATTER TONIGHT!

Ran 160 watts into 18 el at 55 ft during the shower pointed to NW. Heard nothing in Amarillo, TX DM95cf. 73 Ben WS5R

From ke4eer@ro.com Sat Dec 16 11:41:55 1995

Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id LAA18140 for <aprssig@tapir.org>; Sat, 16 Dec 1995 11:41:53 -0600 (CST)

Received: from ts1p4.ro.com (ts1p4.ro.com [205.216.92.24]) by sh1.ro.com (8.6.9/8.6.9) with SMTP id MAA32134 for <aprssig@tapir.org>; Sat, 16 Dec 1995 12:48:31 -0600

Message-Id: <199512161848.MAA32134@sh1.ro.com>

X-Mailer: InternetWorks Mail and News 1.1

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Date: Sat, 16 Dec 1995 11:41:42

From: ke4eer@ro.com (William Nolle)

To: aprssig@tapir.org

Subject: Gif files

For those APRS users that like GIF files concerning APRS i have uploaded a file named AL-GA-TN.ZIP and a text file AL-GA-TN.TXT that shows much of this areas APRS activity, and also shows our mapping system (Well Alabama anyway hi). It also shows our digi coverage etc. if you like APRS & GIF's you will like these hi. They where captured with Grabber on Sat Dec 16 abt 10am.

Bill KE4EER

ke4eer@ro.com

From jeff.wallach@drig.com Sat Dec 16 12:00:37 1995

Received: from mail.holonet.net (root@guardian.holonet.net [198.207.169.11]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id MAA18720 for <APRSSIG@TAPR.ORG>; Sat, 16 Dec 1995 12:00:34 -0600 (CST)

Received: from drig (root@localhost) by mail.holonet.net with UUCP id JAA13141; Sat, 16 Dec 1995 09:49:00 -0800

Received: by drig (PCB-UUCP 1.1f)

id 38EBAC; Sat, 16 Dec 95 11:34:24 -0600

To: APRSSIG@tapir.org

Subject: [APRSSIG:5224] RE: APRTRAK TRANSMIT RATE

From: jeff.wallach@drig.com (Jeff Wallach)

Message-ID: <59.47233.99.0C38EBAC@drig.com>

In-Reply-To: <199512160442.UAA23696@ix11.ix.netcom.com>

Date: Sat, 16 Dec 95 11:34:00 -0600

Organization: Dallas Remote Imaging Group 214-394-7325 <info@drig.com>

Bill,

the latest version of APRTrak is always on the Dallas Remote Imaging Group FTP server at:

ftp.drig.com /pub/aprs

or,

the dial-up BBS at:

214-492-7057

it is a free access for all callers.

regards,

jeff n5itu
Dallas Remote Imaging Group

From dbarrow@omnifest.uwm.edu Sat Dec 16 13:28:18 1995
Received: from uwm.edu (uwm.edu [129.89.6.2]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id NAA21512 for <aprssig@tapir.org>; Sat, 16 Dec 1995 13:28:15 -0600 (CST)
Received: from omnifest.uwm.edu (omnifest.uwm.edu [129.89.70.58]) by uwm.edu (8.7.1/8.6.9) with SMTP id NAA31037 for <aprssig@tapir.org>; Sat, 16 Dec 1995 13:28:11 -0600 (CST)
Received: by omnifest.uwm.edu; (5.65/1.1.8.2/17Sep94-0940PM)
id AA26181; Sat, 16 Dec 1995 13:28:11 -0600
Date: Sat, 16 Dec 1995 13:28:11 -0600
From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Message-Id: <9512161928.AA26181@omnifest.uwm.edu>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:5211] Re: GPS, Altitud

Re: induced error

Personally I think this induced error is "for the birds". Any need that might have existed is now gone. Maybe I'll just go to LoranC.

Dave Barrow, N9UNR

From 102256.1216@compuserve.com Sat Dec 16 19:41:13 1995
Received: from arl-img-6.compuserve.com (arl-img-6.compuserve.com [198.4.7.6]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id TAA03532 for <aprssig@tapir.org>; Sat, 16 Dec 1995 19:41:08 -0600 (CST)
Received: by arl-img-6.compuserve.com (8.6.10/5.950515)
id UAA13213; Sat, 16 Dec 1995 20:40:36 -0500
Date: 16 Dec 95 20:39:13 EST
From: Doug Woodruff <102256.1216@compuserve.com>
To: TAPR E-mail Forum <aprssig@tapir.org>
Subject: WIDE formatting
Message-ID: <951217013913_102256.1216_BHB97-1@CompuServe.COM>

What is the proper format for stationary stations who wish to go through a local gate to be visible elsewhere? Is it <path to gate>,GATE,GATE,WIDE or should there be only one GATE in the path?

Same question for mobiles.....should there be one or two GATES in the path?

Doug, KM4HY
Athens, GA

From jbaum@freenet.columbus.oh.us Sat Dec 16 19:49:25 1995
Received: from ronco.freenet.columbus.oh.us (ronco.freenet.columbus.oh.us

[164.107.107.13]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id TAA03891 for <aprssig@tapir.org>; Sat, 16 Dec 1995 19:49:22 -0600 (CST)

Received: from acme.freenet.columbus.oh.us by ronco.freenet.columbus.oh.us (8.6.10/4.940426)

id UAA24825; Sat, 16 Dec 1995 20:49:18 -0500

Received: by acme.freenet.columbus.oh.us (8.6.10) id UAA10698; Sat, 16 Dec 1995 20:49:18 -0500

Date: Sat, 16 Dec 1995 20:47:17 -0500 (EST)

From: John Baum <jbaum@freenet.columbus.oh.us>

Subject: Re: [APRSSIG:5206] Needed badly

To: aprssig@tapir.org

cc: aprssig@tapir.org

In-Reply-To: <199512152012.0AA29660@sh1.ro.com>

Message-ID: <Pine.3.07.9512162015.A9284-a1000000@acme>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 15 Dec 1995, William Nolle wrote:

> I was just looking dreadfully at a directory full of 95 maps of the Madison
> county Alabama area and the next task of looking at each map to extract the
> center coordinates to enter into a maplist. Sure would be great if one of the
> prorammmers out there in APRS land would write a little program that could
> extract just the Map name and the 4th and 5th line and output this into the
> format required by APRS as ALMAP1.MAP,4TH LINE,5TH LINE in ascii
> format so it could then be pasted into a maplist. I find that the hardest part
> of mapmaking.

Just like me not liking to do labels on the maps, its something
that's gotta get done, and is just one part of map making.

John Baum - KB8JX0 - Sysop APRS OHIO LLBBS (614) 443-4249

Cruise Missile Address: 39 56.35 N 082 58.89 W

Semi-Co-owner of HOOT - Columbus Ohio's BiWeekly Humor Newspaper

From bruninga@nadm.navy.mil Sat Dec 16 22:49:12 1995

Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id WAA09134 for <aprssig@tapir.org>; Sat,
16 Dec 1995 22:49:09 -0600 (CST)

Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
XAA28294; Sat, 16 Dec 1995 23:49:33 -0500

Date: Sat, 16 Dec 1995 23:49:33 -0500 (EST)

From: Bob Bruninga <bruninga@nadm.navy.mil>

To: aprssig@tapir.org

Subject: Re: [APRSSIG:5222] Paccomm HSP and Tiny 2 configuration assistance

In-Reply-To: <59.47110.99.0C38EB94@drig.com>

Message-ID: <Pine.SUN.3.91.951216234745.28284A-1000000@greatlakes>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 15 Dec 1995, Jeff Wallach wrote:

```
> Paccomm HSP Switch and Mode with APRS74E
> =====
> However, if I hookup the Paccomm HSP cable (DB9 of Black cable to
> Magellan, Y portion of Gray cable to Paccomm Tiny2, and other end
> of grey cable to the RS232 PC cable), the RTS, CTS, and DTR show no
> voltage at all -- only the receive light is flashing once every 2
```

APR REPLY: The HSP is for APRS to switch between the TNC and the GPS,
so the Y part of the cable goes to the PC, NOT the TNC.. End of problem...

|DE WB4APR in Annapolis MD.|

From bruninga@nadn.navy.mil Sat Dec 16 22:53:23 1995
Received: from greatlakes.nadn.navy.mil (greatlakes.nadn.navy.mil [131.121.9.4])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id WAA09307 for <aprssig@tapir.org>; Sat,
16 Dec 1995 22:53:19 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadn.navy.mil (8.6.12/8.6.12) id
XAA28306; Sat, 16 Dec 1995 23:53:45 -0500
Date: Sat, 16 Dec 1995 23:53:44 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:5225] I/O Glitch
In-Reply-To: <199512160447.AA01213@diamond.sierra.net>
Message-ID: <Pine.SUN.3.91.951216235149.28284C-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 15 Dec 1995, Scott Miller wrote:

```
> It seems like just about every time I quit aprs to do something else
> like get E-Mail when I start aprs again I get an I/O Glitch.
> seems like the TNC -a PICO 2 port w/internal GPS allways defaults to
> 9600 baud on port one and I've been configuring it 1200 baud for raido,
> 4800 baud for port one-the rs 232 port-and 4800 for port 2-the GPS port.
> Can anyone tell me if it's ok to run the rs 232 port -1- at 9600
```

APR REPLY: Run APRS at 9600 is just fine. It only defaults to 4800
since many GPS units are stuck at that speed and sometimes people configure
their TNC's for 4800 to match when they go mobile as a
stand-alone-tracker.

|DE WB4APR in Annapolis MD.|

From bruninga@nadn.navy.mil Sat Dec 16 22:56:11 1995
Received: from greatlakes.nadn.navy.mil (greatlakes.nadn.navy.mil [131.121.9.4])

by sys1.tapir.org (8.7.2/8.7.2) with SMTP id WAA09372 for <aprssig@tapir.org>; Sat,
16 Dec 1995 22:56:08 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadn.navy.mil (8.6.12/8.6.12) id
XAA28324; Sat, 16 Dec 1995 23:56:34 -0500
Date: Sat, 16 Dec 1995 23:56:33 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:5226] Re: Grabber.exe
In-Reply-To: <199512160523.XAA15600@intellinet.com>
Message-ID: <Pine.SUN.3.91.951216235537.28284F-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 15 Dec 1995, mickey esposito wrote:

> >Am I missing something or will APRS finally run under windows, especially
> Win95?

APR REPLY: Let me give you a hint..... Hold your breath....
Watch this net.....

|DE WB4APR in Annapolis MD.|

From bruninga@nadn.navy.mil Sat Dec 16 23:10:20 1995
Received: from greatlakes.nadn.navy.mil (greatlakes.nadn.navy.mil [131.121.9.4])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id XAA09865 for <aprssig@tapir.org>; Sat,
16 Dec 1995 23:10:17 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadn.navy.mil (8.6.12/8.6.12) id
AAA28549; Sun, 17 Dec 1995 00:10:42 -0500
Date: Sun, 17 Dec 1995 00:10:41 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:5227] APRStrak in the scheme of things...
In-Reply-To: <199512161201.EAA16982@kilroy.jpl.nasa.gov>
Message-ID: <Pine.SUN.3.91.951217000458.28284I-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sat, 16 Dec 1995, Greg LaBorde wrote:

> Where does APRStrak fit into the scheme of things? Is it a cut-down APRS with
> some satellite-specific features added? Does it require an additional/different
> registration than APRS?

APR RELY: Yes to the above. I gave it to AMSAT (my 2nd love) for
several reasons:

- 1) So they could sell it as a fund raiser for helping to build more
satellites
- 2) So that I had no monetary interest in it and then could PREACH about how
good I think APRS would be for SAREX and other "wide reaching, low tech"
satellites for school, students and kids and us old fudds too...

3) So that I could add neat little space things to the APRS code without taking up space and bloating the normal APRS...

APRS itself still has the space mode, but does not have the special "ONE TIME" code necessary to receive the telemetry and special formats from the 24 hour mission of the SPRE experiment coming up in 4 weeks...

Register APRtrak with AMSAT....

|DE WB4APR in Annapolis MD.|

From bruninga@nadm.navy.mil Sat Dec 16 23:17:03 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id XAA09965 for <aprssig@tapr.org>; Sat,
16 Dec 1995 23:17:00 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
AAA28560; Sun, 17 Dec 1995 00:17:25 -0500
Date: Sun, 17 Dec 1995 00:17:24 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapr.org
Subject: News about SAFEX and MIR (fwd)
Message-ID: <Pine.SUN.3.91.951217001419.28284J-1000000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Here is our first neighbor on 145.80... Hey, its a hobby, lets all enjoy
the messsages from space... DE WB4APR in Annapolis MD.|

----- Forwarded message -----
SEASONS GREETINGS FROM DP0MIR

German Astronaut Thomas Reiter, DF4TR/DP0MIR, who will stay aboard MIR until February 1996, is going to send seasons greetings for Christmas and New Year to all HAMS and SWLs all over the world. He will use the the digital voice recorder constructed by Thomas Kieselbach, DL2MDE. The storage capacity of the recorder is up to 8 minutes. Thomas Reiter will record messages, which will be transmitted automatically then. As time permits there will probably also be some "life" activity of DP0MIR. The messages will be transmitted mainly on 145.800 MHz, which is the frequency assigned by IARU for manned spacecraft ham activity.

Vy 73 de Norbert, DF5DP (DARC Coordinator Satellites and Space Projects)

From bruninga@nadm.navy.mil Sun Dec 17 00:10:16 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id AAA14590 for <aprssig@tapr.org>; Sun,
17 Dec 1995 00:10:12 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
BAA28651; Sun, 17 Dec 1995 01:10:37 -0500

Date: Sun, 17 Dec 1995 01:10:36 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5239] WIDE formatting
In-Reply-To: <951217013913_102256.1216_BHB97-1@CompuServe.COM>
Message-ID: <Pine.SUN.3.91.951217005441.28284P-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sat, 16 Dec 1995, someone wrote:

> What is the proper format for stationary stations who wish to go through
> a local gate to be visible elsewhere?

APR REPLY: Sorry, but the proper procedure is to buy an HF radio and put it on 10.151. That way your station can *hear* the already busy channel and it will only inject a packet when the channel is clear. And it will also use a transmit timing that is appropriate for the much slower 300 baud channel.

Unless you are a special event station, or a mobile involved in some event or exercise that is of "national" interest, then your VHF packets are not really appropriate on the SINGLE SLOW 300 baud channel. This is *not* to say that most of what you may see on HF necessarily *is* of national significance either, but simply that the VHF user is BLIND to the congestion on the HF side of the GATE and like anywhere else in Ham radio, SHOULD NOT TRANSMIT WITHOUT LISTENING TO THE CHANNEL... Or another way of saying it is that ONE VHF station anywhere within range of any number of dozens of gateways can pump so much 1200 baud traffic into the narrow 300 baud gate that it would totally QRM the HF net into grilock nationwide.

So this HF restriction is not an elitest stance, but simply a protection of the vary vulnerable 300 baud channel (more like 50 baud throughput) from the estimated 1000*1200 baud potential of all the VHFers that would like to use it...

See README\HF.txt

Please do not use GATE or GATE,GATE on VHF...

|DE WB4APR in Annapolis MD.|

From Turnstone@aol.com Sun Dec 17 02:10:17 1995
Received: from mail02.mail.aol.com (mail02.mail.aol.com [152.163.172.66]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id CAA20131 for <aprssig@tapr.org>; Sun, 17 Dec 1995 02:10:14 -0600 (CST)
From: Turnstone@aol.com
Received: by mail02.mail.aol.com (8.6.12/8.6.12) id DAA11994 for aprssig@tapr.org; Sun, 17 Dec 1995 03:09:43 -0500

Date: Sun, 17 Dec 1995 03:09:43 -0500
Message-ID: <951217030942_74617944@mail02.mail.aol.com>
To: aprssig@tapr.org
Subject: Re: GPS, Altitude and general thoughts.

Greetings APRSers,

On the subject of GPS position and altitude accuracy, one might summarize generally as follows. Note that these are generalizations, not intended to be technically detailed.

Note also that I am not discussing the use of DGPS corrections to improve accuracy

Nice reply by Mike KA6SPT. I agree completely. You can't dispute the facts. Also, the Eagle Accunav is reputed to be very good, especially under forest cover.

1 - Altitude accuracy is always about 50% worse than positional accuracy.

This has to do largely with all the satellites being over your head. If there were visible satellites both above you and below you, then the triangulation would yield better altitude accuracy. Unfortunately, our planet gets in the way of that. I never pay any attention to the altitude readout. It has very limited value.

2 - Positional accuracy errors can be as big as +/- 150 meters. Position errors are less than 100 meters (330 feet) about 80% of the time. Let's not quibble about the exact percentages.

3 - Two GPS receivers side-by-side can give completely different position and altitude readouts, for at least two reasons. One, they may be tracking different satellites. Two, if the GPS engines are of different makes, they may use completely different algorithms for computing the position (i.e. single channel sequential tracking, versus parallel channel simultaneous tracking).

4 - The position and altitude errors are due in part to the Selective Availability (SA) "feature" provided by our government. SA causes the satellites to dilute the accuracy they would otherwise provide.

In summary, if you look at a NON-DGPS receiver, and it is reporting a position error of less than 50 feet, you're simply lucky. Keep watching, and the error will gradually increase, then decrease, then increase, in the never-ending dance of SA.

Thanks for listening. Happy tracking,

Tom - Salem, OR [turnstone@aol.com] AB7NV (ex-KC7AGK)

From jkerns@usit.net Sun Dec 17 07:39:58 1995

Received: from use.usit.net (use.usit.net [199.1.48.3]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id HAA27595 for <aprssig@tapr.org>; Sun, 17 Dec 1995 07:39:55 -0600 (CST)

Received: from bway-slip81.dynamic.usit.net (bway-slip81.dynamic.usit.net [204.194.172.127]) by use.usit.net (8.6.10/8.6.9) with SMTP id IAA08562 for

<aprssig@tapr.org>; Sun, 17 Dec 1995 08:42:01 -0500
Message-Id: <199512171342.IAA08562@use.usit.net>
X-Sender: jkerns@usit.net
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sat, 16 Dec 1995 20:36:54 -0500
To: aprssig@tapr.org
From: jkerns@usit.net (jim kerns)
Subject: Re: [APRSSIG:5243] Re: Grabber.exe

>On Fri, 15 Dec 1995, mickey esposito wrote:

>
>> >Am I missing something or will APRS finally run under windows, especially
>> Win95?

>
>APR REPLY: Let me give you a hint..... Hold your breath....
>Watch this net.....

>
>-----
>|DE WB4APR in Annapolis MD.|
>-----

>From Jim, N4PUQ... what Bob ment was get into windows file manager, and run
aprs exe from there. It is not a windows program as yet, but will run that
way. 73 Jim.

>
>

From mwalker@interlog.com Sun Dec 17 07:49:30 1995
Received: from gold.interlog.com (root@gold.interlog.com [198.53.145.2]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id HAA27886 for <aprssig@tapr.org>; Sun, 17
Dec 1995 07:49:26 -0600 (CST)
Received: from interlog.com (mwalker.interlog.com [199.212.152.131]) by
gold.interlog.com (8.6.10/8.6.10) with SMTP id IAA10505 for <
aprssig@tapr.org>; Sun, 17 Dec 1995 08:49:19 -0500
Message-Id: <199512171349.IAA10505@gold.interlog.com>
Date: Sat, 16 Dec 95 20:49:12 EST
From: mwalker@interlog.com (Mike Walker)
Reply-To: mwalker@interlog.com (Mike Walker)
To: aprssig@tapr.org
X-Mailer: Mike Walker's PMMail v1.1
Subject: TNC Init and Restore

Hi Bob,

It would be nice if when we exit from APRS with the laptop that the restore.tnc
file sets up all the buffers for the KPC-3 to track in standalone mode. (not a
problem, we can do this now, just modify restore.tnc).

Now, when I start APRS, what file can I modify to take my KPC-3 out of
standalone tracker mode and reset all the LTP values to null? Is there an
INIT.TNC??

I often change from from HSP mode to standalone tracker mode and this would help to automate a little better.

Seasons Greetings....mike

Mike Walker
127 High St. W.
Mississauga, ON
L5H 1K4

mwalker@interlog.com
rf: va3mw@va3bbs

From schiers@ibm.net Sun Dec 17 08:28:23 1995
Received: from smtp-gw01.ny.us.ibm.net ([165.87.194.252]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id IAA29008 for <aprssig@tapir.org>; Sun, 17 Dec 1995 08:28:20 -0600 (CST)
Received: (from uucp@localhost) by smtp-gw01.ny.us.ibm.net (8.6.9/8.6.9) id OAA01792 for <aprssig@tapir.org>; Sun, 17 Dec 1995 14:28:17 GMT
Message-Id: <199512171428.OAA01792@smtp-gw01.ny.us.ibm.net>
Received: from slip230-91.mo.us.ibm.net(129.37.230.91) by smtp-gw01.ny.us.ibm.net via smap (V1.3mjr)
id smaX_wDFW; Sun Dec 17 14:28:06 1995
Date: Sat, 16 Dec 95 23:37:02 EST
From: schiers@ibm.net (hasan schiers)
Reply-To: schiers@ibm.net (hasan schiers)
To: aprssig@tapir.org
X-Mailer: hasan schiers's PMMail v1.1
Subject: U-2000 & APRS

Bob,
I should have mentioned in my last message that the number of data sentences per minute is quite a bit higher on the 2000 than what we had on the U-II. The rate on the 2000 is about 90 per minute...the U-II was about 17/min.

Hope you find a fix...I miss sending out the wx. 73,

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

From martinbw@TEN-NASH.TEN.K12.TN.US Sun Dec 17 09:55:28 1995
Received: from ten-nash.ten.k12.tn.us (ten-nash.ten.k12.tn.us [198.146.3.220]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id JAA01619 for <aprssig@tapir.org>; Sun, 17 Dec 1995 09:55:25 -0600 (CST)
Received: from oscar.telalink.net (198.146.3.67) by TEN-NASH.TEN.K12.TN.US (PMDF V4.3-10 #11463) id <01HYWRIYB5CWI47Q8E@TEN-NASH.TEN.K12.TN.US>; Sun, 17 Dec 1995 09:55:20 -0600 (CST)
Date: Sat, 16 Dec 1995 00:32:59 -0600
From: "Bruce W. Martin" <martinbw@TEN-NASH.TEN.K12.TN.US>
Subject: Re: SALE - QST Patch Antenna
To: aprssig@tapir.org, Michael Walker <mwalker@gold.interlog.com>
Message-id: <9512160032.AA59951@oscar.tbr.state.tn.us>
MIME-version: 1.0
X-Mailer: InterCon TCP/Connect II 2.3

Content-type: Multipart/Mixed;boundary=part_ACF7C43B00341B8A000000005
Content-transfer-encoding: 7BIT

--part_ACF7C43B00341B8A000000005
Content-Type: Text/Plain; charset=US-ASCII
Content-Disposition: Inline

> I have materials to make about 20 or so. I'm still finding some
> suppliers for magnets, etc...
>
> The cost will be \$30 US and \$5 for shipping and packing materials.
> Shipments will be via Canadian Mail (this is the best way so we don't
> have any brokerage charges).
>
>
> Michael Walker
> mwalker@interlog.com
> VA3MW
>
>

Any chance of setting this up to screw the Antenna on an NMO mount? I do not
relish having the RG-58 mangled and deformed by doors or trunk lids.

73 de KQ4TV

--part_ACF7C43B00341B8A000000005
Content-Transfer-Encoding: Quoted-Printable
Content-Type: Text/Plain; charset=ISO-8859-1
Content-Disposition: Inline

--

* Bruce W. Martin Internet: martinbw@ten-nash.ten.k12.tn.us *
* 4558 Brooke Valley Dr. HAM Call: KQ4TV *
* Hermitage TN 37076-2650 ICBM/ALCM *
* Voice: (615) 872-9942 Address:36=B010'30"N/86=B035'30"W *=
* FAX/MODEM: (615) 885-4182 APRS:3610.50N/08635.50W *
* URL: http://www.tbr.state.tn.us/~martinbw/home.html *
* I have a 486DX33 to play games and run some HAM programs, *
* when I want to do serious work I use a Macintosh. *

--part_ACF7C43B00341B8A000000005--

From rtucker@crasher2.ttgciitn.com Sun Dec 17 10:15:58 1995
Received: from insosf1.netins.net (ttgciitn@insosf1.netins.net [167.142.225.5]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id KAA02100 for <aprssig@tapr.org>; Sun, 17
Dec 1995 10:15:55 -0600 (CST)
Received: (from ttgciitn@localhost) by insosf1.netins.net id KAA32273 for
aprssig@tapr.org; Sun, 17 Dec 1995 10:15:48 -0600
Received: (from rtucker@localhost) by crasher2.ttgciitn.com (8.6.12/8.6.12) id

KAA03175 for aprssig@tapr.org; Sun, 17 Dec 1995 10:07:01 -0600
From: Ryan Tucker <rtucker@crasher2.ttgciitn.com>
Message-Id: <199512171607.KAA03175@crasher2.ttgciitn.com>
Subject: Re: [APRSSIG:5243] Re: Grabber.exe
To: aprssig@tapr.org
Date: Sun, 17 Dec 1995 10:06:59 -0600 (CST)
In-Reply-To: <Pine.SUN.3.91.951216235537.28284F-100000@greatlakes> from "Bob
Bruninga" at Dec 16, 95 11:24:31 pm
X-Mailer: ELM [version 2.4 PL24]
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

Thus spake Bob Bruninga, splattered hither:
> APR REPLY: Let me give you a hint..... Hold your breath....
> Watch this net.....

I have a feeling that if I hold my breath for a Linux version, I might
suffocate ;-)

--

| | |
|-------------------------|--|
| Ryan Tucker | ttgciitn.com owner |
| rtucker@ttgciitn.com | ann-arbor.mi.us.undernet.org irc admin |
| http://www.ttgciitn.com | netins.net user development group |

From gerry@cs.tamu.edu Sun Dec 17 13:12:32 1995
Received: from cs.tamu.edu (clavin.cs.tamu.edu [128.194.130.106]) by sys1.tapr.org
(8.7.2/8.7.2) with SMTP id NAA07553 for <aprssig@tapr.org>; Sun, 17 Dec 1995
13:12:29 -0600 (CST)
Received: from solar.cs.tamu.edu (0@solar.cs.tamu.edu [128.194.132.1]) by
cs.tamu.edu (8.6.10/8.6.4) with ESMTP id NAA10627 for <aprssig@tapr.org>; Sun, 17
Dec 1995 13:11:51 -0600
From: Gerald J Creager <gerry@cs.tamu.edu>
Received: (gerry@localhost) by solar (8.6.10/8.6.4) id HAA16101 for
aprssig@tapr.org; Sun, 17 Dec 1995 07:22:55 -0600
Message-Id: <199512171322.HAA16101@solar>
Subject: Re: [APRSSIG:5238] Re: GPS, Altitud
To: aprssig@tapr.org
Date: Sun, 17 Dec 1995 07:22:54 -0600 (CST)
In-Reply-To: <9512161928.AA26181@omnifest.uwm.edu> from "David W. Barrow III" at
Dec 16, 95 01:49:06 pm
X-Mailer: ELM [version 2.4 PL24]
Content-Type: text

David W. Barrow III sez:
>
> Re: induced error
> Personally I think this induced error is "for the birds". Any
> need that might have existed is now gone. Maybe I'll just go to
> LoranC.

The errors involved in the GPS system are of two forms: Induced and Common
Mode. Common Mode errors are those inherent to the system design, and seen by

everyone. These include minor (read, "minute") changes in orbital parameters that are not accounted for in the Ephemeris data, Single Event Upset errors induced onboard the spacecraft that are self-correcting and transient in nature, multipath error, caused when the signal is received from several reflections, and with associated temporal delay, and atmospheric delay induced by the signal's traverse of the atmosphere, primarily the ionosphere, with a modellable but variable delay value. Longer epoch times and reduced chip count also fall into this category.

Induced errors are those that were designed within the system to provide a level of security to the system and its primary intended users: The US Military. These systems include diddling the PRN's output time signal (not the onboard standard) as well as misreporting ephemeris data slightly. The system is designed so that introduction of SA errors can be modulated depending on the subsatellite point (and obviously, the visibility window) of the PRN. So, it's conceivable that PRN16 might be diddled over, say, Bosnia, but not the Pacific and the US. Or, they might just decide to report PRN 12 as available and healthy over Paris, in honor of the strikes:-)

As to whether the introduction of SA error is necessary any longer, I won't argue. I've my own opinions, and they just may differ from yours. I have been utilizing a DGPS system here (fabricated from stone knoves, bear skins and a motorola VP OnCore board) that provides me reproducible 3 meter accuracies with L1 only receivers. What can I say?

73, gerry

From annr@comtch.iaa.com Sun Dec 17 14:06:34 1995
Received: from comtch.iaa.com (comtch.iaa.com [198.17.249.2]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id OAA09059 for <aprssig@tapir.org>; Sun, 17 Dec 1995 14:06:31 -0600 (CST)
Received: by comtch.iaa.com (8.6.10/SMI-4.1)
id UAA22509; Sun, 17 Dec 1995 20:06:19 GMT
Date: Sun, 17 Dec 1995 12:06:18 -0800 (PST)
From: Ann Reeves <annr@comtch.iaa.com>
X-Sender: annr@comtch
To: aprs <aprssig@tapir.org>
Subject: Something wierd...
Message-ID: <Pine.SV4.3.91.951217115258.21422A-100000@comtch>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Sometimes while running APRS, my call sign changes all by itself. I suddenly BECOME some other station from my P-list. The only apparent way to get myself back is to leave APRS and start it up again. This may happen several times in one day and then not again for a week.

We want to tell Bob Bruninga about the problem but can't seem to force it to happen so there isn't enough info for him to work with. I know of 2 other people who have had the same thing happen.

It has happened with more than one version (7.2b & 7.3a) All of the us have been registered users running weather with U-II. TNCs have been both

KPC3 and PK-88. It MAY be happening as we enter or leave the TNC mode with O-C-T but as I said, I'm unable to make it happen.

It's wierd (disconcerting, too) to all of a sudden have your call sign change. Has this happened to any of the rest of you??

73, Ann WA7ROS and Jim WA7RVV

From gwyn@paccomm.com Sun Dec 17 14:48:49 1995
Received: from paccomm.com ([163.125.30.1]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id OAA09951 for <aprssig@tapr.org>; Sun, 17 Dec 1995 14:48:08 -0600 (CST)
X-BBS-Msg-Type: P
Date: Sun, 17 Dec 95 15:13:59 UTC
Message-Id: <12219@paccomm.com>
From: gwyn@paccomm.com (Gwyn Reedy, W1BEL)
To: aprssig@tapr.org
Subject: PicoPacket and APRS 74e

On Tue, 12 Dec 1995, Randy Hall wrote:

>Does APRS74e.zip address the picopacket issues:

Thought I'd publish the information on this interface on the SIG.

This information relates to PicoPacket EPROM dated 12/10/95. Earlier versions may not have the same capabilities.

This applies to a PicoPacket 2 port model with a GPS attached to the 2nd serial port, and also to a PicoPacket with a built-in GPS receiver (which is attached internally to the 2nd serial port).

There are two ways to set up a Pico to interface with APRS without using a port switch cable.

1) Set the LOC command to 'beacon' your GPS string periodically. Perhaps once per minute - user's call as to how often.

GPSTEXT \$GPGGA (default)
LOC E 6 (once per minute)
ELOC ON

The ELOC converts the 'beacon' of Location from the HDLC (radio) port to the terminal serial port. So the Pico 'beacons' and ASCII GPS string out the serial port each minute.

If you later turn ELOC OFF, location beacons will resume on the radio port.

The ELOC technique is also useful for other than APRS applications.

2) Second method: This method will automatically change the PICO from a tracker (location transmitting device) to an APRS TNC.

Set the location beacon parameters you want for the TRAKKER:
GPSTEXT \$Gxxxx (select GPS string)
LPATH to via path (typically APRS v relay, wide or such)

LOC E 6 (beacon once per minute - you decide how often)

This will cause the Pico to beacon its position whenever there is no APRS computer hooked up.

As soon as you hook up a computer running APRS (which was initialized with the command PICO - see Bob's docs) the following happens:

APRS sends out a CTRL-E to the Pico.

The Pico responds with an ASCII beacon of the selected GPS string AND the Pico Location beacon timer is reset to zero.

Whenever APRS wants an update to the fix, it sends a CTRL-E and the Pico sends the data. Works like the hardware port switch, but it is all done in software. As long as APRS asks for a fix more frequently than the LOC E nn timer is set for, the PICO never beacons.

As soon as you unplug the computer (or stop APRS) the Pico resumes its position beacons.

73, Gwyn

Gwyn Reedy, W1BEL gwyn@paccomm.com W1BEL@amsat.org

PacComm Packet Radio Systems, Inc. +(813) 874-2980 Fax: +(813) 872-8696
4413 N. Hesperides St. BBS: +(813) 874-3078 (V.34)
Tampa, FL 33614-7618 USA info@paccomm.com http://www.paccomm.com/info

From bruninga@nadm.navy.mil Sun Dec 17 14:49:11 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id 0AA10164 for <aprssig@tapr.org>; Sun,
17 Dec 1995 14:49:08 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
PAA29469; Sun, 17 Dec 1995 15:49:33 -0500
Date: Sun, 17 Dec 1995 15:49:32 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5248] Re: Grabber.exe
In-Reply-To: <199512171342.IAA08562@use.usit.net>
Message-ID: <Pine.SUN.3.91.951217154657.29356F@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 17 Dec 1995, jim kerns wrote:

> >APR REPLY: Let me give you a hint..... Hold your breath....
> >Watch this net.....
> >
> >From Jim, N4PUQ... what Bob ment was get into windows file manager, and run
> >aprs exe from there. It is not a windows program as yet, but will run that

APR REPLY: No, actually I meant something else... You will notice a product announcement in this months QST saying something about APRS and

Windows...

|DE WB4APR in Annapolis MD.|

From bruninga@nadm.navy.mil Sun Dec 17 14:50:55 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tappr.org (8.7.2/8.7.2) with SMTP id 0AA10273 for <aprssig@tappr.org>; Sun,
17 Dec 1995 14:50:52 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
PAA29475; Sun, 17 Dec 1995 15:51:17 -0500
Date: Sun, 17 Dec 1995 15:51:16 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tappr.org
Subject: Re: [APRSSIG:5249] TNC Init and Restore
In-Reply-To: <199512171349.IAA10505@gold.interlog.com>
Message-ID: <Pine.SUN.3.91.951217155015.29356G-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 17 Dec 1995, Mike Walker wrote:

> Now, when I start APRS, what file can I modify to take my KPC-3 out of
> standalone tracker mode and reset all the LTP values to null? Is there an
> INIT.TNC??

APR REPLY: Yes, INITTAPR.TNC or INITAEA.tnc depending on your type of TNC.

|DE WB4APR in Annapolis MD.|

From jkerns@usit.net Sun Dec 17 15:14:27 1995
Received: from use.usit.net (use.usit.net [199.1.48.3]) by sys1.tappr.org
(8.7.2/8.7.2) with SMTP id PAA10875 for <aprssig@tappr.org>; Sun, 17 Dec 1995
15:14:24 -0600 (CST)
Received: from bway-slip94.dynamic.usit.net (bway-slip94.dynamic.usit.net
[204.194.172.140]) by use.usit.net (8.6.10/8.6.9) with SMTP id QAA03160 for
<aprssig@tappr.org>; Sun, 17 Dec 1995 16:15:57 -0500
Message-Id: <199512172115.QAA03160@use.usit.net>
X-Sender: jkerns@usit.net
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sun, 17 Dec 1995 04:11:00 -0500
To: aprssig@tappr.org
From: jkerns@usit.net (jim kerns)
Subject: Re: [APRSSIG:5254] Something wierd...

Either GOD or Santa Claus is punishing you.

Jim, N4PUQ

suddenly BECOME some other station from my P-list. The only apparent way
>to get myself back is to leave APRS and start it up again. This may
>happen several times in one day and then not again for a week.
>
>We want to tell Bob Bruninga about the problem but can't seem to force it
>to happen so there isn't enough info for him to work with. I know of 2
>other people who have had the same thing happen.
>
>It has happened with more than one version (7.2b & 7.3a) All of the us
>have been registered users running weather with U-II. TNCs have been both
>KPC3 and PK-88. It MAY be happening as we enter or leave the TNC mode
>with O-C-T but as I said, I'm unable to make it happen.
>
>It's wierd (disconcerting, too) to all of a sudden have your call sign
>change. Has this happened to any of the rest of you??
>
>73, Ann WA7ROS and Jim WA7RVV
>
>
>

From z002594b@bcfreenet.seflin.lib.fl.us Sun Dec 17 15:16:35 1995
Received: from bcfreenet.seflin.lib.fl.us (bcfreenet.seflin.lib.fl.us
[198.78.48.20]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id PAA10899 for
<aprssig@tapr.org>; Sun, 17 Dec 1995 15:16:24 -0600 (CST)
Received: (from z002594b@localhost) by bcfreenet.seflin.lib.fl.us (8.6.12/8.6.12)
id QAA08434; Sun, 17 Dec 1995 16:14:44 -0500
Date: Sun, 17 Dec 1995 16:14:44 -0500 (EST)
From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Subject: Re: [APRSSIG:5230] Re: Grabber.exe
To: aprssig@tapr.org
cc: aprssig@tapr.org
In-Reply-To: <199512161405.JAA07599@use.usit.net>
Message-ID: <Pine.3.89.9512171647.A7510-0100000@bcfreenet.seflin.lib.fl.us>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

The black APRS map is what inspired me to redraw it using PAINTBRUSH for
my home page.

William Manley
z002594b@bcfreenet.seflin.lib.fl.us
<http://ourworld.compuserve.com/homepages/bmanley>

On Sat, 16 Dec 1995, jim kerns wrote:

> >
> >William: Thanks for Tip. You and APR got me going. On a color printer,
> APRS map sure looks black. Hi.
> 73 Jim N4PUQ>
>

From largriff@Onramp.NET Sun Dec 17 15:24:57 1995
Received: from mailhost.onramp.net (mailhost.onramp.net [199.1.11.3]) by
sys1.tapir.org (8.7.2/8.7.2) with SMTP id PAA11321 for <aprssig@tapir.org>; Sun, 17
Dec 1995 15:24:54 -0600 (CST)
Received: from largriff (lub10.onramp.net [199.1.172.138]) by mailhost.onramp.net
(8.6.12/8.6.5) with SMTP id PAA24626 for <aprssig@tapir.org>; Sun, 17 Dec 1995
15:24:51 -0600
Message-Id: <199512172124.PAA24626@mailhost.onramp.net>
Comments: Authenticated sender is <largriff@mailhost.onramp.net>
From: "Larry Griffin" <largriff@Onramp.NET>
To: aprssig@tapir.org
Date: Sun, 17 Dec 1995 15:22:36 +0000
Subject: Re: [APRSSIG:5254] Something wierd...
Reply-to: Larry Griffin <largriff@Onramp.NET>
Priority: normal
X-mailer: Pegasus Mail for Windows (v2.23)

On 17 Dec 95 at 14:20, Ann Reeves wrote:

> Sometimes while running APRS, my call sign changes all by itself. I
> suddenly BECOME some other station from my P-list.
>
> 73, Ann WA7ROS and Jim WA7RVV

I've had that happen to me too, but very infrequently, i.e. less than
once a month. My station runs APRS 24 hrs a day on VHF with U-II and
a KAM. It has happened to me while I was away from the keyboard, so
I don't think it has anything to do with O-C-T use as you mentioned.
But I haven't found any other clues as to what might be the cause.

Larry Griffin <largriff@onramp.net>

From gwelte@blueox.bji.net Sun Dec 17 15:39:56 1995
Received: from blueox.bji.net (root@blueox.bji.net [206.31.226.1]) by
sys1.tapir.org (8.7.2/8.7.2) with SMTP id PAA11940 for <aprssig@tapir.org>; Sun, 17
Dec 1995 15:39:53 -0600 (CST)
Received: from [206.31.226.34] ([206.31.226.31]) by blueox.bji.net (8.6.9/8.6.9)
with SMTP id PAA16773 for <aprssig@tapir.org>; Sun, 17 Dec 1995 15:41:46 -0600
Date: Sun, 17 Dec 1995 15:41:46 -0600
Message-Id: <v0153050aacf9eacd33a3@[206.31.226.34]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapir.org
From: gwelte@blueox.bji.net (George A. Welte)
Subject: Re: [APRSSIG:5255] PicoPacket and APRS 74e

HELP [APRS74C With ULTIMITER 2000 and AEA PK12] CAN'T GET IT TO WORK

From alanwc7r@primenet.com Sun Dec 17 16:52:10 1995

Received: from mailhost1.primenet.com (mailhost1.primenet.com [198.68.32.51]) by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id QAA14411 for <aprssig@tapr.org>; Sun, 17 Dec 1995 16:52:04 -0600 (CST)

Received: from usr3.primenet.com (root@usr3.primenet.com [198.68.32.13]) by mailhost1.primenet.com (8.7.1/8.7.1) with ESMTP id PAA07406 for <aprssig@tapr.org>; Sun, 17 Dec 1995 15:52:01 -0700 (MST)

Received: from Primenet.primenet.com (ip209.prc.primenet.com [204.212.56.209]) by usr3.primenet.com (8.7.1/8.7.1) with SMTP id PAA05854 for <aprssig@tapr.org>; Sun, 17 Dec 1995 15:52:00 -0700 (MST)

Message-ID: <30D49F07.3F4E@primenet.com>

Date: Sun, 17 Dec 1995 15:51:51 -0700

From: Alan Unangst <alanwc7r@primenet.com>

Organization: Primenet

X-Mailer: Mozilla 2.0b3 (Win95; I)

MIME-Version: 1.0

To: "aprssig@tapr.org" <aprssig@tapr.org>

Subject: Accessing ftp://tapr.org

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

I am having trouble accessing ftp://tapr.org/tapr/SIG/aprssig/upload when using the Microsoft Internet Exploror (release version) and Windows95, when in the "Favorite Links" area. Has anyone else had this problem, and if so what did you do to fix it????

I did not have this problem in the Beta version. (It wasn't broken so MS had to fix it)!

I have not had any problems with Netscape v. 2.0. Its' "Bookmarks" work every time. Maybe I should just kiss off Billy Gates and his attempt to enter the world of Cyber Space????

Thanks for any ideas.

73.....Alan, WC7R

From bruninga@nadn.navy.mil Sun Dec 17 17:14:38 1995

Received: from greatlakes.nadn.navy.mil (greatlakes.nadn.navy.mil [131.121.9.4]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id RAA14992 for <aprssig@tapr.org>; Sun, 17 Dec 1995 17:14:35 -0600 (CST)

Received: (from bruninga@localhost) by greatlakes.nadn.navy.mil (8.6.12/8.6.12) id SAA00048; Sun, 17 Dec 1995 18:15:02 -0500

Date: Sun, 17 Dec 1995 18:15:01 -0500 (EST)

From: Bob Bruninga <bruninga@nadn.navy.mil>

To: aprssig@tapr.org

Subject: Re: [APRSSIG:5253] Re: GPS, Altitud

In-Reply-To: <199512171322.HAA16101@solar>

Message-ID: <Pine.SUN.3.91.951217180119.29992B-100000@greatlakes>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Someone said:

>

> Re: induced error

> Personally I think this induced error is "for the birds". Any

> need that might have existed is now gone. Maybe I'll just go to

> LoranC.

APR REPLY: A decent percentage of the people on this net could probably get together, and with less than the investment it takes to buy a new car, could build a CRUISE MISSILE using GPS to target any spot on the surface of the earth. I personally am thankful that the government is providing some protection for us in the form of SA.

When you consider the resources and money available to the crazies in the middle east, the individual making the above statement is "misinformed".

His reply will be that what difference does 50 meters mean when you deliver a bomb? Again, he is misinformed. The 100 meter randomness is only the RESULT of SA as seen in POSITS. The real effect of SA is in the velocity component which, when you are cruising at several hundred miles per hour even the slightest errors will make you miss your target by A LOT MORE THAN 100 meters.

Be thankful that we civilians get to play with these high tech toys in a free and open society. Which a lot of folks would like to destroy...

I donno what this has to do with APRS, but sometimes I get a little patriotic...

|DE WB4APR in Annapolis MD.|\n-----

From bruninga@nadm.navy.mil Sun Dec 17 17:18:22 1995

Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id RAA15080 for <aprssig@tapir.org>; Sun, 17 Dec 1995 17:18:17 -0600 (CST)

Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id SAA00054; Sun, 17 Dec 1995 18:18:44 -0500

Date: Sun, 17 Dec 1995 18:18:43 -0500 (EST)

From: Bob Bruninga <bruninga@nadm.navy.mil>

To: aprssig@tapir.org

Subject: Re: [APRSSIG:5254] Something wierd...

In-Reply-To: <Pine.SV4.3.91.951217115258.21422A-1000000@comtch>

Message-ID: <Pine.SUN.3.91.951217181621.29992C-1000000@greatlakes>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 17 Dec 1995, Ann Reeves wrote:

> Sometimes while running APRS, my call sign changes all by itself. I
> suddenly BECOME some other station from my P-list. The only apparent way
> to get myself back is to leave APRS and start it up again. This may

> happen several times in one day and then not again for a week.

APR REPLY: Very disconcerting, but I cant find the problem in the code... I havent seen it in over 2 years.... but we have to trap this gremlin in a reproducible way... So when you see it happen to you, figure out what may be unique about your station or the NET and feedback to me...

|DE WB4APR in Annapolis MD.|

From bruninga@nadm.navy.mil Sun Dec 17 17:25:37 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id RAA15464 for <aprssig@tapr.org>; Sun,
17 Dec 1995 17:25:34 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
SAA00078; Sun, 17 Dec 1995 18:26:00 -0500
Date: Sun, 17 Dec 1995 18:25:59 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5261] Re: PicoPacket and APRS 74e
In-Reply-To: <v0153050aacf9eacd33a3@[206.31.226.34]>
Message-ID: <Pine.SUN.3.91.951217182347.29992E-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 17 Dec 1995, George A. Welte wrote:

> HELP [APRS74C With ULTIMITER 2000 and AEA PK12] CAN'T GET IT TO WORK

APR REPLY: This is a quite ambiguous statment.

What does it DO?

|DE WB4APR in Annapolis MD.|

From jleonard@tbcnet.com Sun Dec 17 17:26:06 1995
Received: from tbc2.tbcnet.com (root@tbc2.tbcnet.com [205.199.1.5]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id RAA15483 for <aprssig@tapr.org>; Sun, 17
Dec 1995 17:26:01 -0600 (CST)
Received: from jbleonard.tbcnet.com (jbleonard.tbcnet.com [205.199.1.129]) by
tbc2.tbcnet.com (8.6.12/8.6.12) with SMTP id RAA15089 for <aprssig@tapr.org>; Sun,
17 Dec 1995 17:26:03 -0600
Date: Sun, 17 Dec 1995 17:26:03 -0600
Message-Id: <199512172326.RAA15089@tbc2.tbcnet.com>
X-Sender: jleonard@tbcnet.com
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

To: aprssig@tapr.org
From: jleonard@tbcnet.com (John B. Leonard)
Subject: Re: [APRSSIG:5258] Re: Something wierd...

>Either GOD or Santa Claus is punishing you.
>
>Jim, N4PUQ
>
>suddenly BECOME some other station from my P-list.

Well, Jim, somebody's punishing a lot of us...

It happened to me with the following situation:

- 1 KPC-3 w/ U-II running 24hr.
- 2 Remote connect to WA9CJN wide to change parameters
- 3 I think CJN heard a station, then mine took on that station's
callsign.

It only happened once under those conditions.

Also, can somebody tell me why my computer/APRS/U-II will go into the
UNPROTO screen overnight when I set the Screensaver function on. Often when
that happens, the buffer starts filling. The screen quits updating til I
attend to it, then the buffer dumps into the P-list.

Oh, the bandpass filter continues to crank along great. Best \$89 I've spent
on this APRS system.

J Barry Leonard N9VJQ
Subependymoma
DeKalb IL
E-MAIL: jleonard@tbcnet.com

From: bruninga@nadn.navy.mil Sun Dec 17 20:01:16 1995
Received: from greatlakes.nadn.navy.mil (greatlakes.nadn.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id UAA23894 for <aprssig@tapr.org>; Sun,
17 Dec 1995 20:01:14 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadn.navy.mil (8.6.12/8.6.12) id
VAA00457; Sun, 17 Dec 1995 21:01:40 -0500
Date: Sun, 17 Dec 1995 21:01:39 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
To: aprssig@tapr.org
Subject: Stolen callsigns
Message-ID: <Pine.SUN.3.91.951217205901.393E-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Well from the few messages already, it seems like the common thread is
the WX station. I will assume that is the area for me to look...

QUESTION: Has anyone seen this happen that IS *NOT* running a WX

station?

|DE WB4APR in Annapolis MD.|

From geh@aip.org Sun Dec 17 20:02:10 1995
Received: from aip.org (pinet.aip.org [192.58.150.10]) by sys1.tappr.org (8.7.2/8.7.2) with SMTP id UAA23912 for <aprssig@tappr.org>; Sun, 17 Dec 1995 20:02:08 -0600 (CST)
Date: Sun, 17 Dec 95 21:02:03 EST
From: geh@aip.org (gordon_hardman)
Message-Id: <9512180202.AA06413@aip.org>
To: aprssig@tappr.org
Subject: APRS- help...

Can anyone tell me the incantations required in order to enable tracking of a mobile station in APRS? I have been listening on .79 for about a week, but have not heard (seen?) a soul. Things are rather quiet in the Denver area. Consequently, I have constructed a mobile station using a Magellan Trailblazer XL, TRS80 model 102 as NMEA NC and Icom P2AT radio. It all works fine, and the message it sends looks just like the description in "Protocols.TXT" for a mobile. I can adjust the rate to whatever I like, or send an averaged position fix. It all appears at the bottom of the APRS74e screen, but I can't seem to find the magic sequence of keystrokes to get it displayed on the screen!

I have pored over the so-called documentation, but there is nothing in the way of a tutorial on tracking. I went through all the menu commands by letter, but nothing looks likely. What am I doing wrong? Also, what does the "Channel Loading" number at the bottom right mean? Mine frequently reads numbers in the 200-300% range when monitoring a channel that sounds about 10% full!

Gratefull for any pointers!

73

Gordon Hardman KE3D

Boulder, CO

<geh@aip.org>

4002.90N/10517.55W/5500ft

From dhenry@SIRNet.mb.ca Sun Dec 17 20:55:45 1995
Received: from sir1.sirnet.mb.ca (dhenry@sir1.sirnet.mb.ca [198.163.125.2]) by sys1.tappr.org (8.7.2/8.7.2) with SMTP id UAA25648 for <aprssig@tappr.org>; Sun, 17 Dec 1995 20:55:40 -0600 (CST)
Received: (from dhenry@localhost) by sir1.sirnet.mb.ca (8.6.11/8.6.11) id VAA08505; Sun, 17 Dec 1995 21:58:47 -0600
Date: Sun, 17 Dec 1995 21:58:46 -0600 (CST)
From: Doug Henry <dhenry@SIRNet.mb.ca>
To: aprssig@tappr.org
cc: aprssig@tappr.org
Subject: Re: [APRSSIG:5263] Re: GPS, Altitud
In-Reply-To: <Pine.SUN.3.91.951217180119.29992B-100000@greatlakes>
Message-ID: <Pine.LNX.3.91.951217215135.8235B-100000@sir1.sirnet.mb.ca>

MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

certainly agree with you on this bob, civilians now have access to unprecedented levels of technology.

On Sun, 17 Dec 1995, Bob Bruninga wrote:

```
>
> Someone said:
> >
> > Re: induced error
> >         Personally I think this induced error is "for the birds". Any
> > need that might have existed is now gone. Maybe I'll just go to
> > LoranC.
>
> APR REPLY: A decent percentage of the people on this net could probably
> get together, and with less than the investment it takes to buy a new car,
> could build a CRUISE MISSILE using GPS to target any spot on the surface
> of the earth. I personally am thankful that the government is providing
> some protection for us in the form of SA.
>
> When you consider the resources and money available to the crazies in
> the middle east, the individual making the above statement is
> "misinformed".
>
> His reply will be that what difference does 50 meters mean when you
> deliver a bomb? Again, he is misinformed. The 100 meter randomness
> is only the RESULT of SA as seen in POSITS. The real effect of SA is in
> the velocity component which, when you are cruising at several hundred
> miles per hour even the slightest errors will make you miss your target
> by A LOT MORE THAN 100 meters.
>
> Be thankful that we civilians get to play with these high tech toys in a
> free and open society. Which a lot of folks would like to destroy...
>
> I donno what this has to do with APRS, but sometimes I get a little patriotic...
>
> -----
> |DE WB4APR in Annapolis MD.|
> -----
>
```

From rwf@mindspring.com Sun Dec 17 21:51:11 1995
Received: from borg.mindspring.com (root@borg.mindspring.com [204.180.128.14]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id VAA27346 for <aprssig@tapr.org>; Sun, 17
Dec 1995 21:51:07 -0600 (CST)
Received: from rwf.mindspring.com [168.121.44.154] by borg.mindspring.com
with SMTP id WAA17855 for <aprssig@tapr.org>; Sun, 17 Dec 1995 22:50:59 -0500
Date: Sun, 17 Dec 1995 22:50:59 -0500
Message-Id: <199512180350.WAA17855@borg.mindspring.com>
X-Sender: rwf@mindspring.com
X-Mailer: Windows Eudora Version 2.1.1

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: rwf <rwf@mindspring.com>
Subject: Re: [APRSSIG:5254] Something wierd...

Me Too!! I seem to become someone else sometimes, as well. I am running a U-II and have had this problem in *at least* all of version 74. It may have something to do with when I "hook" another station and leave it hooked. I think that is the station I become. The only way I can fix it is to restart with a virgin config file.

At 02:19 PM 12/17/95 -0600, you wrote:

>Sometimes while running APRS, my call sign changes all by itself. I
>suddenly BECOME some other station from my P-list. The only apparent way
>to get myself back is to leave APRS and start it up again. This may
>happen several times in one day and then not again for a week.
>
>We want to tell Bob Bruninga about the problem but can't seem to force it
>to happen so there isn't enough info for him to work with. I know of 2
>other people who have had the same thing happen.
>
>It has happened with more than one version (7.2b & 7.3a) All of the us
>have been registered users running weather with U-II. TNCs have been both
>KPC3 and PK-88. It MAY be happening as we enter or leave the TNC mode
>with O-C-T but as I said, I'm unable to make it happen.
>
>It's wierd (disconcerting, too) to all of a sudden have your call sign
>change. Has this happened to any of the rest of you??
>
>73, Ann WA7ROS and Jim WA7RVV
>
>

From rwf@mindspring.com Sun Dec 17 21:51:21 1995
Received: from borg.mindspring.com (root@borg.mindspring.com [204.180.128.14]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id VAA27364 for <aprssig@tapr.org>; Sun, 17 Dec 1995 21:51:18 -0600 (CST)
Received: from rwf.mindspring.com [168.121.44.154] by borg.mindspring.com with SMTP id WAA17883 for <aprssig@tapr.org>; Sun, 17 Dec 1995 22:51:09 -0500
Date: Sun, 17 Dec 1995 22:51:09 -0500
Message-Id: <199512180351.WAA17883@borg.mindspring.com>
X-Sender: rwf@mindspring.com
X-Mailer: Windows Eudora Version 2.1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org
From: rwf <rwf@mindspring.com>
Subject: Re: [APRSSIG:5266] Re: Something wierd...

At 05:45 PM 12/17/95 -0600, Barry Leonard wrote:

>

>Oh, the bandpass filter continues to crank along great. Best \$89 I've spent
>on this APRS system.

That reminds me of something I saw in Dallas last week that I just had to
laugh at.

I went to Tucker Electronics. Their bandpass filter is 59.00 or so and is
very small (about 2"x3")

It has a power lead on it. The salesman (and also a different person on a
different day) told me "it works great, you never hear any intermod".

No wonder! The thing has 6 db of insertion loss! They do not print the
specs, but both salesmen told me this. How do you transmit after you
have inserted a device that halves your power twice? The power lead on it
is to power a Tx/RX (pin diode?) switch so you can pass 50 W thru it.

Let's all go buy something that cuts our receiver sensitivity in half twice
so we don't hear intermod. Sure hope your digis and repeaters are REAL
close, and forget about simplex.

From bruninga@nadm.navy.mil Sun Dec 17 22:13:08 1995

Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id WAA27920 for <aprssig@tapr.org>; Sun,
17 Dec 1995 22:13:05 -0600 (CST)

Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
XAA00854; Sun, 17 Dec 1995 23:13:29 -0500

Date: Sun, 17 Dec 1995 23:13:28 -0500 (EST)

From: Bob Bruninga <bruninga@nadm.navy.mil>

To: moyers@ibm.net

cc: aprssig@tapr.org

Subject: Re: Overflow with U-2000

In-Reply-To: <9512180522.AA0033@slip166-72-241-66.tn.us.ibm.net>

Message-ID: <Pine.SUN.3.91.951217230749.826A-100000@greatlakes>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

OK, now I am beginning to understand, I may have some fine tuning of
the U-2000 to go yet. Sending this to the SIG too so that anyone else that
is having problems with my interface to the U-2000 can all reply at once..

NOTE TO THE SIG: Remember that there are dozens of messages here every
day and I can not keep in my mind any on-going dialog with each
individual, although i recognize most of you well, I just cant keep it
all straight, hi hi. So each time you report a problem, you have got to
put it ALL in that one message. Each follow up message on the same
subject should not assume that I remember much if any from the previous
message... hi hi

|DE WB4APR in Annapolis MD.|

From bruninga@nadm.navy.mil Sun Dec 17 22:25:09 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id WAA28504 for <aprssig@tapir.org>; Sun,
17 Dec 1995 22:25:05 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
XAA00877; Sun, 17 Dec 1995 23:25:31 -0500
Date: Sun, 17 Dec 1995 23:25:30 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:5268] APRS- help...
In-Reply-To: <9512180202.AA06413@aip.org>
Message-ID: <Pine.SUN.3.91.951217231720.826B-1000000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 17 Dec 1995, gordon_hardman wrote:

> quiet in the Denver area. Consequently, I have constructed a mobile
> station using a Magellan Trailblazer XL, TRS80 model 102 as NMEA
> NC and Icom P2AT radio. It all works fine, and the message it sends
> looks just like the description in "Protocols.TXT" for a mobile. I can

It sounds like you are doing it the hardway... Do you mean you are using
the 102 to parse and BUILD an APRS position packet?

If so, then here is what it should look like as a standard packet
monitored on any TNC or the APRS bottom line:

W3XYZ>APRS,DIGI:@DDHHMM/3859.11N/10504.44W.....

Everything after the W is optional

The packet and HEADER must be on the same line.

When APRS displays this on the bottom line, it also shows WHAT IT DID
WITH IT. If it says POS..... then it was interpreted as a POS.

If it says BCN, then it was NOT a pos and was placed on the LATEST list.

If it was your own packet it says MY.....

if it has no header then it says NO>

etc...

But you don't need the 102 if you use a new TNC that will just transmit the
RAW NMEA strings at a much slower rate. APRS parses the raw NMEA right
off the air...

Hope this helps... OH, be sure that you are not using the SAME call for
your mobile and APRS. (different SSID's are OK) Otherwise it is ignoring
"itself" and that's why it's not putting you on the map...

|DE WB4APR in Annapolis MD.|

From ke4eer@ro.com Sun Dec 17 23:15:52 1995
Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tappr.org (8.7.2/8.7.2) with SMTP id XAA00161 for <aprssig@tappr.org>; Sun, 17 Dec 1995 23:15:50 -0600 (CST)
Received: from ts3p4.ro.com (ts3p4.ro.com [205.216.92.84]) by sh1.ro.com (8.6.9/8.6.9) with SMTP id AAA11435 for <aprssig@tappr.org>; Mon, 18 Dec 1995 00:17:04 -0600
Message-Id: <199512180617.AAA11435@sh1.ro.com>
X-Mailer: InternetWorks Mail and News 1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sun, 17 Dec 1995 23:09:55
From: ke4eer@ro.com (William Nolle)
To: aprssig@tappr.org
Subject: Hookup's

You know it would be just great if somebody that's well versed on the subject of hooking up WX,GPS,TNC;s etc would come up with a list on how to do's. I see so many messages how do you hook this up and how do you hook that up. I have one right now. SINCE ny WX station got hit by lightning and is now fixed but was running on an old 8088 IBM. I now want to setup a standalone weather station using a TNC, Radio only. I can use a KPC3, Tiny-2, DRSI DPK2 but would like to know the whole setup, and yes i know there's something about this in the doc's, but there are many of us that are good at one thing but not another. Boy that would sure solve a lot of problems users have that i see questions about. I would like to make another GPS tracker but don't want to go through all that stuff (Had a better word for stuff but didn't want to use it hi) i went through with the Magellan NAV5000DX and the KPC3. So it would really be great for all users to be able to download a file from Tappr on HOW TO HOOKUP and PROGRAM ur TNC etc. Just an idea fellows. All i see all the time is a bunch of gobblegook and technical terms that an old man like me just doesn't even want to read hi. Go ahead with the flame throwers again i just bought a fireproof suit har har.

Bill KE4EER
ke4eer@ro.com

From schiers@ibm.net Mon Dec 18 03:49:07 1995
Received: from smtp-gw01.ny.us.ibm.net ([165.87.194.252]) by sys1.tappr.org (8.7.2/8.7.2) with SMTP id DAA12652 for <aprssig@tappr.org>; Mon, 18 Dec 1995 03:49:03 -0600 (CST)
Received: (from uucp@localhost) by smtp-gw01.ny.us.ibm.net (8.6.9/8.6.9) id JAA17445 for <aprssig@tappr.org>; Mon, 18 Dec 1995 09:48:55 GMT
Message-Id: <199512180948.JAA17445@smtp-gw01.ny.us.ibm.net>
Received: from slip230-66.mo.us.ibm.net(129.37.230.66) by smtp-gw01.ny.us.ibm.net via smap (V1.3mjr)
id smagR0DM2; Mon Dec 18 09:48:44 1995
Date: Mon, 18 Dec 95 00:24:30 EST
From: schiers@ibm.net (hasan schiers)

Reply-To: schiers@ibm.net (hasan schiers)
To: aprssig@tapr.org
X-Mailer: hasan schiers's PMMail v1.1
Subject: Re: [APRSSIG:5261] Re: PicoPacket and APRS 74e

On Sun, 17 Dec 1995 15:52:32 -0600 (CST) you wrote:

>HELP [APRS74C With ULTIMITER 2000 and AEA PK12] CAN'T GET IT TO WORK

APRS does not currently support the U-2000. It has some bugs. Bob has been informed of the over run problem and is working on it.

Further...your message for help is nearly worthless...what doesn't work? How doesn't it work? Can't get it to work tells us next to nothing. If you want help, be more specific and many of us would try. I have a U-2000 running right now, but since APRS is experiencing overruns, I am not running APRS as of two days ago.

My theory is that the data output from the U-2000 is so much more intensive (at 90 data sentences per minute), compared to the U-II (at about 17 per minute), that Bob's program can't hack it until he makes some modifications.

Will keep the sig informed, if Bob makes some progress (as I am sure he will, as well.)

73,

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

From ke4eer@ro.com Mon Dec 18 06:19:00 1995
Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id GAA16093 for <aprssig@tapr.org>; Mon, 18 Dec 1995 06:18:57 -0600 (CST)
Received: from ts1p2.ro.com (ts1p2.ro.com [205.216.92.22]) by sh1.ro.com (8.6.9/8.6.9) with SMTP id HAA17285 for <aprssig@tapr.org>; Mon, 18 Dec 1995 07:25:32 -0600
Message-Id: <199512181325.HAA17285@sh1.ro.com>
X-Mailer: InternetWorks Mail and News 1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Mon, 18 Dec 1995 06:18:43
From: ke4eer@ro.com (William Nolle)
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5209] It happened

Well you can START using age as an excuse around 60+ that gives you some idea Shannon Hi. But not having made a mistake at all upto that point not many people can claim that Hi Hi.

Bill KE4EER

>William Nolle writes:
>> Well it finally happened. The FIRST mistake i ever made in my life, and it
>....
>> it wasn't already there. Go ahead guys and laugh all you guys are hopefully
>> going to get to this age also Hi Hi.
>>
>> Bill KE4EER (Hiding head in shame)..
>
>I'm not laughing, but just how old are you? I'd like to know when -I- can
>start using age as an excuse. ;-)
>
>--Shannon, DL6SEU (33 years old)
>

From ah586@detroit.freenet.org Mon Dec 18 07:07:50 1995
Received: from detroit.freenet.org (detroit.freenet.org [204.29.212.10]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id HAA17355 for <aprssig@tapr.org>; Mon, 18
Dec 1995 07:07:45 -0600 (CST)
Received: (from ah586@localhost) by detroit.freenet.org (8.6.10/869.2) id
IAA09857; Mon, 18 Dec 1995 08:07:41 -0500
Date: Mon, 18 Dec 1995 08:07:41 -0500
Message-Id: <199512181307.IAA09857@detroit.freenet.org>
From: ah586@detroit.freenet.org (Steve Sable)
To: aprssig@tapr.org
Subject: MacAPRS
Reply-To: ah586@detroit.freenet.org

Where can I find this Windows demo
of APRS at? What is it called?

--

```

  _ _ | | _ _ _ _ | _ _ | \ \ / _ _ | ah586@detroit.freenet.org
 \ _ _ \ _ _ | _ _ | \ \ / _ _ |      N8NYU
 ----/ _ _ | _ _ | \ _ / _ _ | Maybee, Michigan
```

From rholbert@manny.rcinet.com Mon Dec 18 07:40:36 1995
Received: from nohar.rcinet.com (nohar.rcinet.com [157.134.207.6]) by
sys1.tapr.org (8.7.2/8.7.2) with ESMTP id HAA18251 for <aprssig@tapr.org>; Mon, 18
Dec 1995 07:40:31 -0600 (CST)
Received: (from smap@localhost) by nohar.rcinet.com (8.7.1/8.6.12) id IAA13644 for
<aprssig@tapr.org>; Mon, 18 Dec 1995 08:40:28 -0500 (EST)
Received: from manny.rcinet.com(199.18.212.6) by nohar.rcinet.com via smap (V1.3)
id sma013640; Mon Dec 18 08:40:27 1995
Received: (from smap@localhost) by manny.rcinet.com (8.7.1/8.6.12) id IAA11892 for
<aprssig@tapr.org>; Mon, 18 Dec 1995 08:40:26 -0500 (EST)

Message-Id: <199512181340.IAA11892@manny.rcinet.com>
Received: from rcinet-226.rcinet.com(199.18.212.226) by manny.rcinet.com via smap (V1.3)

id sma011887; Mon Dec 18 08:40:07 1995

To: aprssig@tapr.org
From: "Richard L. Holbert" <rholtbert@manny.rcinet.com>
Subject: RE: [APRSSIG:5199] Re: Grabber.exe
Date: Fri, 15 Dec 1995 16:14:58
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I've had good luck using Alt-Print Screen to capture APRS and other screens while running under windows. Use Ctrl-V or Edit-Paste to paste the image into your favorite graphics editor.

Hope this helps.

>>
>>To save an APRS screen, simply run APRS from windows, press the
>PRINT-SCREEN
>>KEY and then exit APRS. When you bring up PAINTBRUSH, you will find the
>>APRS screen on your clipboard. Load it and have fun!
>>
>>
>>-----
>>|DE WB4APR in Annapolis MD.|
>>-----
>Bob I tried but it didnt save to clipboard, but I'll try a few more times.
>Thanks.
>Jim
>N4PUQ>
>>
>>
>
>

Rick Holbert

Ham: KB8DNR
Work: rholtbert@arinc.com
Home: rholtbert@rcinet.com
WWW: <http://www.dma.org/~holbert>

From rholtbert@manny.rcinet.com Mon Dec 18 07:40:36 1995
Received: from nohar.rcinet.com (nohar.rcinet.com [157.134.207.6]) by
sys1.tapr.org (8.7.2/8.7.2) with ESMTP id HAA18250 for <aprssig@tapr.org>; Mon, 18
Dec 1995 07:40:31 -0600 (CST)
Received: (from smap@localhost) by nohar.rcinet.com (8.7.1/8.6.12) id IAA13645 for
<aprssig@tapr.org>; Mon, 18 Dec 1995 08:40:28 -0500 (EST)
Received: from manny.rcinet.com(199.18.212.6) by nohar.rcinet.com via smap (V1.3)
id sma013641; Mon Dec 18 08:40:27 1995
Received: (from smap@localhost) by manny.rcinet.com (8.7.1/8.6.12) id IAA11893 for

<aprssig@tapr.org>; Mon, 18 Dec 1995 08:40:26 -0500 (EST)
Message-Id: <199512181340.IAA11893@manny.rcinet.com>
Received: from rcinet-226.rcinet.com(199.18.212.226) by manny.rcinet.com via smap (V1.3)

id sma011888; Mon Dec 18 08:40:16 1995
To: aprssig@tapr.org
From: "Richard L. Holbert" <rholtbert@manny.rcinet.com>
Subject: RE: [APRSSIG:5231] Re: MS report
Date: Mon, 18 Dec 1995 08:40:05
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Steve,

Yes, I received two copies. One at arinc.com and another at rcinet.com.
Thanks for the fine work you are doing to help coordinate APRS activities here in the tri-state.

73

On Sat, 16 Dec 1995 10:29:23 -0600 (CST),
aprssig@tapr.org wrote...
>Did you get a copy of the TAWG newsletter for 12/95 via internet?
>
>Some folks did not get it for some reason.
>
>There will be a TAWG meeting and APRS presentation at the Packet Symposium,
>20 JAN 96, in Middletown, Ohio. I'll put out more info later.
>
>73,
>
>Steve Caesar
>
>AA8JK
>
>AA8JK@aol.com
>
>

Rick Holbert

Ham: KB8DNR
Work: rholtbert@arinc.com
Home: rholtbert@rcinet.com
WWW: <http://www.dma.org/~holbert>

From n4uls@ix.netcom.com Mon Dec 18 07:44:01 1995
Received: from ix2.ix.netcom.com (ix2.ix.netcom.com [199.182.120.1]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id HAA18293 for <aprssig@tapr.org>; Mon, 18 Dec 1995 07:43:58 -0600 (CST)

Received: from ix2.ix.netcom.com (8.6.12/SMI-4.1/Netcom)
id FAA10277; Mon, 18 Dec 1995 05:44:02 -0800
Date: Mon, 18 Dec 1995 05:44:02 -0800
Message-Id: <199512181344.FAA10277@ix2.ix.netcom.com>
From: n4uls@ix.netcom.com (Jack Anderson)
Subject: Re: [APRSSIG:5267] Stolen callsigns
To: aprssig@tapr.org

You wrote:

>
>Well from the few messages already, it seems like the common thread is
>the WX station. I will assume that is the area for me to look...
>
>QUESTION: Has anyone seen this happen that IS *NOT* running a WX
>station?

I haven't seen it on my WX station, but it has popped up once or twice in the car with HSP. Every once in a great while, my call will pop up in the P-list with one extra character.

Jack

From ksproul@hardees.Rutgers.EDU Mon Dec 18 08:15:54 1995
Received: from old-hercules.rutgers.edu (old-hercules.rutgers.edu [128.6.18.82])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id IAA19165 for <aprssig@tapr.org>; Mon,
18 Dec 1995 08:15:50 -0600 (CST)
Received: (from ksproul@localhost) by old-hercules.rutgers.edu
(8.6.12+bestmx+oldruq+newsunq+grosshack/8.6.12) id JAA23738 for aprssig@tapr.org;
Mon, 18 Dec 1995 09:15:42 -0500
Sender: Keith Sproul <ksproul@old-hercules.rutgers.edu>
Date: Mon, 18 Dec 95 9:15:42 EST
From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
Reply-To: Keith Sproul <ksproul@hardees.Rutgers.EDU>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5277] MacAPRS
In-Reply-To: Your message of Mon, 18 Dec 1995 07:13:59 -0600 (CST)
Message-ID: <CMM-RU.1.4.819296142.ksproul@old-hercules.rutgers.edu>

>
> Where can I find this Windows demo
> of APRS at? What is it called?
>

The new program is called WinAPRS, and it will be limited Beta SOON.

Watch the SIG for announcements..

Keith

| | |
|---------------------------------------|------------------------------------|
| Keith Sproul | Ham Radio: WU2Z |
| Student Housing Network Coordinator | ksproul@noc.rutgers.edu |
| Rutgers University Computing Services | 908 445-3695 Work 908 445-2968 Fax |

From Paul_Moller@csg.mot.com Mon Dec 18 08:25:38 1995

Received: from motgate.mot.com (motgate.mot.com [129.188.136.100]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id IAA19582 for <aprssig@tapir.org>; Mon, 18 Dec 1995 08:25:34 -0600 (CST)

Received: from pobox.mot.com (pobox.mot.com [129.188.137.100]) by motgate.mot.com (8.7.1/8.6.10/MOT-3.8) with ESMTP id IAA02459 for <aprssig@tapir.org>; Mon, 18 Dec 1995 08:25:02 -0600 (CST)

Received: from OAMPC10.csg.mot.com (OAMPC10.csg.mot.com [144.188.134.33]) by pobox.mot.com (8.7.1/8.6.10/MOT-3.8) with SMTP id IAA22628 for <aprssig@tapir.org>; Mon, 18 Dec 1995 08:25:00 -0600 (CST)

Received: from PaulM_PC.csg.mot.com (PaulM_PC.csg.mot.com [144.188.36.8]) by OAMPC10.csg.mot.com (8.6.8.1/8.6.6) with SMTP id IAA20890 for <aprssig@tapir.org>; Mon, 18 Dec 1995 08:32:28 -0600

Message-Id: <2.2b9.32.19951218142604.00757620@144.188.134.33>

X-Sender: mollpj@144.188.134.33

X-Mailer: Windows Eudora Pro Version 2.2b9 (32)

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Date: Mon, 18 Dec 1995 08:26:04 -0600

To: aprssig@tapir.org

From: Paul Moller <Paul_Moller@csg.mot.com>

Subject: changing call signs

>Sometimes while running APRS, my call sign changes all by itself. I
>suddenly BECOME some other station from my P-list. The only apparent way
>to get myself back is to leave APRS and start it up again. This may
>happen several times in one day and then not again for a week.

Yes this has happened to me where I will get a -X, where I had a -nothing, or an extra letter thrown in towards the beginning of my call. Many times I can hook it and delete it. Sometimes not. Not enough data to discern between operator error and system bug....

Paul, WD9ABE

Maybe closer to GLNTC than anybody (5 miles).

From bruninga@nadm.navy.mil Mon Dec 18 09:38:19 1995

Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id JAA22190 for <aprssig@tapir.org>; Mon, 18 Dec 1995 09:38:16 -0600 (CST)

Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id KAA06304; Mon, 18 Dec 1995 10:38:41 -0500

Date: Mon, 18 Dec 1995 10:38:40 -0500 (EST)

From: Bob Bruninga <bruninga@nadm.navy.mil>

To: aprssig@tapir.org

Subject: APRS WX stuff

Message-ID: <Pine.SUN.3.91.951218103140.6088B-1000000@greatlakes>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

1) The problem of "stolen calls" was when your station would acquire some

one else's call sign for itself and place it in the 1st position of the P-LIST.

I found a quaint set of circumstances that could cause this to happen...
it will be fixed in the next version.

2) I have hooked my U-2000 back up and it seems to run fine. Would those stations having problems, set your WX update rate at something short like 8 seconds and then comment on any changes in the observed symptoms relative to what you were experiencing before? Thanks...

|DE WB4APR in Annapolis MD.|

From rwf@mindspring.com Mon Dec 18 09:54:18 1995
Received: from borg.mindspring.com (root@borg.mindspring.com [204.180.128.14]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id JAA22858 for <aprssig@tapir.org>; Mon, 18 Dec 1995 09:54:15 -0600 (CST)
Received: from rwf.mindspring.com [168.121.44.154] by borg.mindspring.com with SMTP id KAA15831 for <aprssig@tapir.org>; Mon, 18 Dec 1995 10:54:06 -0500
Date: Mon, 18 Dec 1995 10:54:06 -0500
Message-Id: <199512181554.KAA15831@borg.mindspring.com>
X-Sender: rwf@mindspring.com
X-Mailer: Windows Eudora Version 2.1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapir.org
From: rwf <rwf@mindspring.com>
Subject: Re: [APRSSIG:5280] Re: Stolen call signs

At 07:57 AM 12/18/95 -0600, Jack wrote:

>

>I haven't seen it on my WX station, but it has popped up once or twice in
>the car with HSP. Every once in a great while, my call will pop up in the
>P-list with one extra character.

Jack- That is a different problem. Bob says the problem you are seeing (and it happens *a lot* with my HSP- I think because I have a very fast GPS screen update posrate) is from garbage being received during/after the switch from tnc to gps and back. I usually have 5 or 6 bogus mutations of calls on my p list until I delete them

Ralph

From sparkfel@primenet.com Mon Dec 18 11:58:28 1995
Received: from mailhost1.primenet.com (mailhost1.primenet.com [198.68.32.51]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id LAA06736 for <aprssig@tapir.org>; Mon, 18 Dec 1995 11:58:24 -0600 (CST)
Received: from usr5.primenet.com (root@usr5.primenet.com [198.68.32.15]) by mailhost1.primenet.com (8.7.1/8.7.1) with ESMTP id KAA09532 for <aprssig@tapir.org>; Mon, 18 Dec 1995 10:58:19 -0700 (MST)
Received: from ip250.phx.primenet.com (ip250.phx.primenet.com [198.68.46.250]) by usr5.primenet.com (8.7.1/8.7.1) with SMTP id KAA29734; Mon, 18 Dec 1995 10:58:19

-0700 (MST)
Date: Mon, 18 Dec 1995 10:58:19 -0700 (MST)
Message-Id: <199512181758.KAA29734@usr5.primenet.com>
X-Sender: sparkfel@mailhost.primenet.com
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org, aprssig@tapr.org
From: sparkfel@primenet.com (Mark Fellhauer)
Subject: Re: [APRSSIG:5247] Re: GPS, Altitude and general thoughts.

>1 - Altitude accuracy is always about 50% worse than positional accuracy.
> This has to do largely with all the satellites being over your head. If
>there were visible satellites both above you and below you, then the
>triangulation would yield better altitude accuracy. Unfortunately, our
>planet gets in the way of that. I never pay any attention to the altitude
>readout. It has very limited value.

Let us not also forget that our Horizontal position is usually not outputted
in feet or meters, but in degrees...much bigger units than feet.

Mark Fellhauer
KC7BXS
sparkfel@primenet.com

From gwelte@blueox.bji.net Mon Dec 18 12:09:09 1995
Received: from blueox.bji.net (root@blueox.bji.net [206.31.226.1]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id MAA07758 for <aprssig@tapr.org>; Mon, 18
Dec 1995 12:09:04 -0600 (CST)
Received: from [206.31.226.31] ([206.31.226.31]) by blueox.bji.net (8.6.9/8.6.9)
with SMTP id MAA18265 for <aprssig@tapr.org>; Mon, 18 Dec 1995 12:10:57 -0600
Date: Mon, 18 Dec 1995 12:10:57 -0600
X-Sender: gwelte@blueox.bji.net (Unverified)
Message-Id: <v01530500acfb051b79ef@[206.31.226.34]>
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
To: aprssig@tapr.org
From: gwelte@blueox.bji.net (George A. Welte)
Subject: Previous call for help

Agreed, my previous call for help was very generic but it was my first time
on line with tapr.org and I didn't know what to expect. I am, however very
pleased with the response.

Realizing the U-2000 is not operating properly with the APRS74e program I
still must be doing something wrong since my station does not even come up
on the map (discounting the weather). Listed below are the commands I put
into the TNC for a remote weather station operation. I will try the single
port mode later.

Echo "Off"

=46low "Off"
Ilfpack "On" (LFIgnore)
CPactime "On"
SENDPAC "\$01"
Conmode "CONVERSE"

My "NOWBU-1"
UN APRS VIA RELAY
GLOCTX "60"
BT @ 230911/4733.30N/09452.59W_Bemidji Weather
Beacon E 60
GNMEA1 \$ULTW
TBAUD "2400"
RESTART

"Then I was putting in GPSSMode 2, but now I understand that shouldn't be done".

"I then turn off the TNC and plug in the U-2000 with the green wire going to pin 2 on the TNC and the black wire going to pin 1 or ground. The U-2000 mode is programmed to the packet mode. (clear with wind chill)

I have tried many alternatives but to no avail.
I am using an AEA Pk-12 along with the U-2000

Any help will be appreciated - then I'll worry about the 2000 when Bob gets it working.
Good work everyone and Thanks.

GAW (N=D8WBU) Bemidji, Minnesota - gwelte@blueox.bji.net

From janderson@ram.net Mon Dec 18 12:10:43 1995
Received: from ram.net (ram.net [199.97.216.2]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id MAA08329 for <aprssig@tapr.org>; Mon, 18 Dec 1995 12:10:38 -0600 (CST)
Received: by ram.net (5.65/1.3-eeef)
id AA19737; Mon, 18 Dec 95 13:09:31 -0500
From: "Jack Anderson" <janderson@ram.net>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5284] Re: Stolen callsigns
Date: Mon, 18 Dec 95 13:09:47 GMT
Message-Id: <15021591.1055@ram.net>
Location: PINE ROCK (791) JEFFERSON, MD

>Jack- That is a different problem. Bob says the problem you are seeing
>(and it happens *a lot* with my HSP- I think because I have a very fast GPS
>screen update posrate) is from garbage being received during/after the
>switch from tnc to gps and back. I usually have 5 or 6 bogus mutations of
>calls on my p list until I delete them
>
>Ralph

I kind of wrote it off as an RS-232 glitch. There's a lot of data flying around on that interface when HSP is running.

It would be interesting to survey the folks experiencing the problem to determine a few facts about the hardware they are running - i.e., CPU type and speed, and type of UART on the serial interface. It would not surprise me if we see a correlation with the problem and the use of 16450 or 8250 UART chips.

Jack

janderson@ram.net
n4uls@ix.netcom.com

From AA8JK@aol.com Mon Dec 18 12:41:00 1995
Received: from mail04.mail.aol.com (mail04.mail.aol.com [152.163.172.53]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id MAA09867 for <aprssig@tapir.org>; Mon, 18 Dec 1995 12:40:56 -0600 (CST)
From: AA8JK@aol.com
Received: by mail04.mail.aol.com (8.6.12/8.6.12) id NAA06319 for aprssig@tapir.org; Mon, 18 Dec 1995 13:40:15 -0500
Date: Mon, 18 Dec 1995 13:40:15 -0500
Message-ID: <951218134013_57503430@mail04.mail.aol.com>
To: aprssig@tapir.org
Subject: Re: [APRSSID:5264] Re: Something wierd...

I have had this "new callsign" problem many times when I leave APRS with the O-C-T operation.

This has also happened when someone connected to my station with a normal packet connect.

I have watched the program change back to the APRS screen from the blue screen many times. It looks like, if my system gets position information from someone else at the time of changeover, it will grab that information, not my information.

I have never seen this happen with my PK-232 or my KPC-3, just my KAM.

My Gate set-up:

XT computer w/VGA
Older KAM on com 1
WX station on com 2
Kenwood VHF rig
Yaesu HF rig

Bob once said to make sure I was in the cmd: mode before going back into APRS, but it didn't work. Is it just a KAM problem?

Steve Caesar AA8JK

TRI-STATE APRS WORKING GROUP (TAWG)

AA8JK@aol.com

From rholbert@manny.rcinet.com Mon Dec 18 13:23:55 1995

Received: from nohar.rcinet.com (nohar.rcinet.com [157.134.207.6]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id NAA12575 for <aprssig@tapir.org>; Mon, 18 Dec 1995 13:23:51 -0600 (CST)

Received: (from smap@localhost) by nohar.rcinet.com (8.7.1/8.6.12) id OAA27434 for <aprssig@tapir.org>; Mon, 18 Dec 1995 14:23:49 -0500 (EST)

Received: from manny.rcinet.com(199.18.212.6) by nohar.rcinet.com via smap (V1.3) id sma027428; Mon Dec 18 14:23:43 1995

Received: (from smap@localhost) by manny.rcinet.com (8.7.1/8.6.12) id OAA02020 for <aprssig@tapir.org>; Mon, 18 Dec 1995 14:23:42 -0500 (EST)

Message-Id: <199512181923.OAA02020@manny.rcinet.com>

Received: from rcinet-227.rcinet.com(199.18.212.227) by manny.rcinet.com via smap (V1.3)

id sma001812; Mon Dec 18 14:23:16 1995

To: aprssig@tapir.org

From: "Richard L. Holbert" <rholbert@manny.rcinet.com>

Subject: APRS OVER LL BBS?

Date: Mon, 18 Dec 1995 14:23:13

MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Is it possible to receive APRS data over a telephone type modem via a land-line bbs with a tnc door? Has anyone tried this?

Thanks

Rick Holbert

Ham: KB8DNR

Work: rholbert@arinc.com

Home: rholbert@rcinet.com

WWW: <http://www.dma.org/~holbertr>

From ke4eer@ro.com Mon Dec 18 14:45:25 1995

Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id OAA00242 for <aprssig@tapir.org>; Mon, 18 Dec 1995 14:45:21 -0600 (CST)

Received: from ts2p2.ro.com (ts2p2.ro.com [205.216.92.52]) by sh1.ro.com (8.6.9/8.6.9) with SMTP id PAA05823 for <aprssig@tapir.org>; Mon, 18 Dec 1995 15:18:45 -0600

Message-Id: <199512182118.PAA05823@sh1.ro.com>

X-Mailer: InternetWorks Mail and News 1.1

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Date: Mon, 18 Dec 1995 14:11:30

From: ke4eer@ro.com (William Nolle)

To: aprssig@tapir.org

Subject: Re: [APRSSIG:5289] APRS OVER LL BBS?

On the same note i have been pondering the idea of using Internet Iphone for packet (Is there any reason this won't work?). Just think of that. We could actually see APRS activity from all over the world.

Bill KE4EER

>Is it possible to receive APRS data over a telephone type modem via a
>land-line bbs with a tnc door? Has anyone tried this?

>

>Thanks

>

>

>

>Rick Holbert

>

>Ham: KB8DNR

>Work: rholbert@arinc.com

>Home: rholbert@rcinet.com

>WWW: <http://www.dma.org/~holbertr>

>

>

From ksproul@hardees.Rutgers.EDU Mon Dec 18 14:51:42 1995

Received: from old-hercules.rutgers.edu (old-hercules.rutgers.edu [128.6.18.82])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id 0AA00834 for <aprssig@tapir.org>; Mon,
18 Dec 1995 14:51:39 -0600 (CST)

Received: (from ksproul@localhost) by old-hercules.rutgers.edu
(8.6.12+bestmx+oldruq+newsunq+grosshack/8.6.12) id PAA24048 for aprssig@tapir.org;
Mon, 18 Dec 1995 15:02:31 -0500

Sender: Keith Sproul <ksproul@old-hercules.rutgers.edu>

Date: Mon, 18 Dec 95 15:02:30 EST

From: Keith Sproul <ksproul@hardees.Rutgers.EDU>

Reply-To: Keith Sproul <ksproul@hardees.Rutgers.EDU>

To: aprssig@tapir.org

In-Reply-To: Your message of Mon, 18 Dec 1995 13:41:45 -0600 (CST)

Subject: RE: APRS Over LL BBS?

Message-ID: <CMM-RU.1.4.819316950.ksproul@old-hercules.rutgers.edu>

> Is it possible to receive APRS data over a telephone type modem via a
> land-line bbs with a tnc door? Has anyone tried this?

>

Would this be possible? Sure..

Will it work now??? NO...

The problem is that the data that gets sent via the SERIAL PORT is only
the DATA part of the packet, i.e.

@181200/4012.34N/07412.34W Metc etc etc

The part that the program expects to see is:

WU2Z*>APRS:<the same as above)

The call sign and TO field (APRS) get added by the TNC, and this would not be present if you simply hooked the serial ports to a pair of modems..

For it to be possible, we (Bob and I) would have to write a NEW mode, and it probably wouldn't be worth it..

You could however, dump P-Lists, and send them over a modem, and load them in at the other end..

Keith

| | |
|---|------------------------------------|
| Keith Sproul | Ham Radio: WU2Z |
| Student Housing Network Coordinator | ksproul@noc.rutgers.edu |
| Rutgers University Computing Services | 908 445-3695 Work 908 445-2968 Fax |
| http://www-ns.rutgers.edu/~ksproul/ | 908 821-4828 Home |

From WB4LTF@aol.com Mon Dec 18 14:51:58 1995
Received: from emout06.mail.aol.com (emout06.mail.aol.com [198.81.10.43]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id OAA00865 for <aprssig@tapir.org>; Mon, 18 Dec 1995 14:51:54 -0600 (CST)
From: WB4LTF@aol.com
Received: by emout06.mail.aol.com (8.6.12/8.6.12) id PAA10658 for aprssig@tapir.org; Mon, 18 Dec 1995 15:33:36 -0500
Date: Mon, 18 Dec 1995 15:33:36 -0500
Message-ID: <951218153334_93630136@emout06.mail.aol.com>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:5216] MAPLISTS and Bill's challenge!

Great Idea!!!! Bill's not the only having trouble...
I'm lucky to get the programs running let alone changing them:-)
Bud
wb4ltf@aol.com

From alanwc7r@primenet.com Mon Dec 18 15:08:14 1995
Received: from mailhost1.primenet.com (mailhost1.primenet.com [198.68.32.51]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id PAA02432 for <aprssig@tapir.org>; Mon, 18 Dec 1995 15:08:12 -0600 (CST)
Received: from usr2.primenet.com (root@usr2.primenet.com [198.68.32.12]) by mailhost1.primenet.com (8.7.1/8.7.1) with ESMTP id NAA16486 for <aprssig@tapir.org>; Mon, 18 Dec 1995 13:26:01 -0700 (MST)
Received: from Primenet.primenet.com (ip215.prc.primenet.com [204.212.56.215]) by

usr2.primenet.com (8.7.1/8.7.1) with SMTP id NAA23284 for <aprssig@tapr.org>; Mon,
18 Dec 1995 13:26:00 -0700 (MST)
Message-ID: <30D5CE4E.2017@primenet.com>
Date: Mon, 18 Dec 1995 13:25:50 -0700
From: Alan Unangst <alanwc7r@primenet.com>
Organization: Primenet
X-Mailer: Mozilla 2.0b3 (Win95; I)
MIME-Version: 1.0
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5289] APRS OVER LL BBS?
References: <199512181923.0AA02020@manny.rcinet.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Richard L. Holbert wrote:

>
> Is it possible to receive APRS data over a telephone type modem via a
> land-line bbs with a tnc door? Has anyone tried this?
>
> Thanks
>
> Rick HolbertYes. We use it here in North Central Arizona. Try contacting KB7FRV
@
KB7FRV.(Packet) Leonard can give you all the information. Good Luck &
73,
Alan, WC7R.....alanwc7r@primenet.com

>
> Ham: KB8DNR
> Work: rholbert@arinc.com
> Home: rholbert@rcinet.com
> WWW: <http://www.dma.org/~holbertr>

From bruninga@nadm.navy.mil Mon Dec 18 15:08:53 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id PAA02450 for <aprssig@tapr.org>; Mon,
18 Dec 1995 15:08:50 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
PAA12204; Mon, 18 Dec 1995 15:09:17 -0500
Date: Mon, 18 Dec 1995 15:09:16 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5286] Previous call for help
In-Reply-To: <v01530500acfb051b79ef@[206.31.226.34]>
Message-ID: <Pine.SUN.3.91.951218150327.12099A-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 18 Dec 1995, George A. Welte wrote:

> Realizing the U-2000 is not operating properly with the APRS74e program

APR REPLY: It sounds to me like you are saying that your U-2000 does not work with your TNC. APRS has nothing to do with interfacing your WX stn to your TNC. You still havent told us WHAT IS WRONG?

Is the TNC transmitting packets? Are they WX packets? What do they look like off the air?

Not until we know that valid packets are getting from your remote WX station and what they look like as received off the air, will we be able to help. APRS is not even involved.. until it sees SOMETHING.....

> still must be doing something wrong since my station does not even come up
> on the map (discounting the weather).

APR: WHAT STATION? The remote WX station or the APRS receiving station?

Listed below are the commands I put

> into the TNC for a remote weather station operation. I will try the single
> port mode later.

> Echo "Off"

> =46low "Off"

> Ilfpack "On" (LFIgnore)

> CPactime "On"

> SENDPAC "\$01"

> Conmode "CONVERSE"

> My "NOWBU-1"

> UN APRS VIA RELAY

> GLOCTX "60"

> BT @ 230911/4733.30N/09452.59W_Bemidji Weather

> Beacon E 60

> GNMEA1 \$ULTW

> TBAUD "2400"

> RESTART

> "I then turn off the TNC and plug in the U-2000 with the green wire going
> to pin 2 on the TNC and the black wire going to pin 1 or ground. The
> U-2000 mode is programmed to the packet mode. (clear with wind chill)

>

> I have tried many alternatives but to no avail.

> I am using an AEA Pk-12 along with the U-2000

>

> Any help will be appreciated - then I'll worry about the 2000 when Bob gets
> it working.

> Good work everyone and Thanks.

>

> GAW (N=D8WBU) Bemidji, Minnesota - gwelte@blueox.bji.net

>

>

>

|DE WB4APR in Annapolis MD.|

From w2g3zfj@unix.asb.com Mon Dec 18 15:42:17 1995
Received: from UNiX.asb.com (root@UNiX.asb.com [165.254.128.2]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id PAA05818 for <aprssig@tapir.org>; Mon, 18 Dec 1995 15:42:11 -0600 (CST)
Received: from asb20 (sls10.asb.com [165.254.128.20]) by UNiX.asb.com (8.6.12/8.6.9) with SMTP id PAA27725 for <aprssig@tapir.org>; Mon, 18 Dec 1995 15:28:31 -0500
Date: Mon, 18 Dec 1995 15:28:31 -0500
Message-Id: <199512182028.PAA27725@UNiX.asb.com>
X-Sender: w2g3zfj@unix.asb.com
X-Mailer: Windows Eudora Light Version 1.5.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapir.org
From: bob <w2g3zfj@unix.asb.com>
Subject: Re: [APRSSIG:5280] Re: Stolen callsigns

Hi Folks

Just to note that I frequently (once or twice a day) get my callsign in the p-list with a 'c' in front of it. At present I am not using a wx station (to much rfi at the new QTH!) I do run it in 2 port HF mode with a KAM at 9600 baud and ver74e.

Hope this helps

73 de bob w2g3zfj@unix.asb.com

At 07:57 18/12/95 -0600, you wrote:

>You wrote:

>>

>>Well from the few messages already, it seems like the common thread is
>>the WX station. I will assume that is the area for me to look...

>>

>>QUESTION: Has anyone seen this happen that IS *NOT* running a WX
>>station?

>

>I haven't seen it on my WX station, but it has popped up once or twice in
>the car with HSP. Every once in a great while, my call will pop up in the
>P-list with one extra character.

>

>Jack

>

>

>

From WB4LTF@aol.com Mon Dec 18 15:53:42 1995
Received: from mail02.mail.aol.com (mail02.mail.aol.com [152.163.172.66]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id PAA06868 for <aprssig@tapir.org>; Mon, 18 Dec 1995 15:53:39 -0600 (CST)
From: WB4LTF@aol.com

Received: by mail02.mail.aol.com (8.6.12/8.6.12) id QAA28972 for aprssig@tapr.org;
Mon, 18 Dec 1995 16:53:06 -0500
Date: Mon, 18 Dec 1995 16:53:06 -0500
Message-ID: <951218165304_93703473@mail02.mail.aol.com>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5267] Stolen callsigns

Hate to be the bearer of bad news, but it has happened to me on at least one occasion and I do not have a wx station.

I'm running 7.4e, and an AEA 232 (old(no mailbox etc)) multitasking from Windows.

I think I had switched back to Windows (3.11), done some things and switched back to APRS and there I was, someone else!!! I had attributed it to the large P-list (about 5 pages) but that was a guess.

I also get some other Call sign changes that show up as Wi4XXX with the lower case i instead of the correct call.

In either case, I can hook my or the other call, delete it and under it is the correct Call.

For whatever this is worth!

Bud
wb4ltf@aol.com

From WB4LTF@aol.com Mon Dec 18 15:53:48 1995
Received: from emout05.mail.aol.com (emout05.mail.aol.com [198.81.10.37]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id PAA06886 for <aprssig@tapr.org>; Mon, 18 Dec 1995 15:53:46 -0600 (CST)
From: WB4LTF@aol.com
Received: by emout05.mail.aol.com (8.6.12/8.6.12) id QAA23365 for aprssig@tapr.org; Mon, 18 Dec 1995 16:53:09 -0500
Date: Mon, 18 Dec 1995 16:53:09 -0500
Message-ID: <951218165306_93703496@emout05.mail.aol.com>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5278] Re: Grabber.exe

It works for me!!! I also invert the image while in paintbrush to get rid of all the black...

Bud
wb4ltf@aol.com

From ndavis@spider.lloyd.com Mon Dec 18 16:08:25 1995
Received: from spider.lloyd.com (root@spider.lloyd.com [158.222.1.5]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id QAA08456 for <aprssig@tapr.org>; Mon, 18 Dec 1995 16:08:21 -0600 (CST)
Received: from dial-2-27.lloyd.com by spider.lloyd.com with smtp (Smail3.1.29.1 #5) id m0tRmJg-000TsYC; Mon, 18 Dec 95 12:37 PST
Message-Id: <m0tRmJg-000TsYC@spider.lloyd.com>
X-Sender: ndavis@spider.lloyd.com

X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Mon, 18 Dec 1995 12:33:22 +0000
To: aprssig@tapr.org
From: ndavis@spider.lloyd.com (Norman Davis)
Subject: APRS not working on com 3

I installed a new VLB enhanced IO board in the machine and I can get everything to work on com 3 but aprs. Anyone have any Ideas.
Norm WB6SHI

From rholbert@manny.rcinet.com Mon Dec 18 16:14:25 1995
Received: from nohar.rcinet.com (nohar.rcinet.com [157.134.207.6]) by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id QAA09234 for <aprssig@tapr.org>; Mon, 18 Dec 1995 16:14:23 -0600 (CST)
Received: (from smap@localhost) by nohar.rcinet.com (8.7.1/8.6.12) id RAA04975 for <aprssig@tapr.org>; Mon, 18 Dec 1995 17:14:20 -0500 (EST)
Received: from manny.rcinet.com(199.18.212.6) by nohar.rcinet.com via smap (V1.3) id sma004973; Mon Dec 18 17:14:02 1995
Received: (from smap@localhost) by manny.rcinet.com (8.7.1/8.6.12) id RAA24366 for <aprssig@tapr.org>; Mon, 18 Dec 1995 17:14:00 -0500 (EST)
Message-Id: <199512182214.RAA24366@manny.rcinet.com>
Received: from rcinet-240.rcinet.com(199.18.212.240) by manny.rcinet.com via smap (V1.3) id sma024362; Mon Dec 18 17:13:27 1995
To: aprssig@tapr.org
From: "Richard L. Holbert" <rholbert@manny.rcinet.com>
Subject: RE: [APRSSIG:5291] RE: APRS Over LL BBS?
Date: Mon, 18 Dec 1995 17:13:22
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Ah, but, what I want to do is to use a machine with two serial ports. Com1 hooked to the TNC and Com2 hooked to the modem. The computer just repeats what it hears on the TNC over the modem. The computer with the TNC doesn't even need to run APRS, but the computer on the other side of the telephone line would be running APRS without a TNC.

This is just an extension of Bob's op-center idea, but using modems in lieu of serial lines.

On Mon, 18 Dec 1995 15:09:58 -0600 (CST),
aprssig@tapr.org wrote...
>> Is it possible to receive APRS data over a telephone type modem via a
>> land-line bbs with a tnc door? Has anyone tried this?
>>
>
>
>Would this be possible? Sure..
>
>Will it work now??? NO...
>

id sma005050; Mon Dec 18 17:22:27 1995
Received: (from smap@localhost) by manny.rcinet.com (8.7.1/8.6.12) id RAA27058 for
<aprssig@tapr.org>; Mon, 18 Dec 1995 17:22:27 -0500 (EST)
Message-Id: <199512182222.RAA27058@manny.rcinet.com>
Received: from rcinet-240.rcinet.com(199.18.212.240) by manny.rcinet.com via smap
(V1.3)

id sma027053; Mon Dec 18 17:22:22 1995
To: aprssig@tapr.org
From: "Richard L. Holbert" <rholbert@manny.rcinet.com>
Subject: RE: [APRSSIG:5290] Re: APRS OVER LL BBS?
Date: Mon, 18 Dec 1995 17:22:20
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Another idea would be to define a viewer for APRS data and use the World Wide Web for distro. The viewer would first check your local system for the appropriate map, and if it isn't there, download it. It would then update position information as it is received. Just an idea. The actual implementation would probably be too slow for practical application.

On Mon, 18 Dec 1995 15:03:43 -0600 (CST),
aprssig@tapr.org wrote...
>On the same note i have been pondering the idea of using Internet Iphone
>for packet (Is there any reason this won't work?). Just think of that. We
>could
>actually see APRS activity from all over the world.
>
>Bill KE4EER
>-----
>>Is it possible to receive APRS data over a telephone type modem via a
>>land-line bbs with a tnc door? Has anyone tried this?
>>
>>Thanks
>>
>>
>>
>>Rick Holbert
>>
>>Ham: KB8DNR
>>Work: rholbert@arinc.com
>>Home: rholbert@rcinet.com
>>WWW: <http://www.dma.org/~holbertr>
>>
>>
>
>
>

Rick Holbert

Ham: KB8DNR
Work: rholbert@arinc.com

Home: rholbert@rcinet.com
WWW: http://www.dma.org/~holbertr

From ke4eer@ro.com Mon Dec 18 16:31:02 1995
Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id QAA10271 for <aprssig@tapir.org>; Mon, 18 Dec 1995 16:30:59 -0600 (CST)
Received: from ts2p3.ro.com (ts2p3.ro.com [205.216.92.53]) by sh1.ro.com (8.6.9/8.6.9) with SMTP id RAA16056 for <aprssig@tapir.org>; Mon, 18 Dec 1995 17:31:06 -0600
Message-Id: <199512182331.RAA16056@sh1.ro.com>
X-Mailer: InternetWorks Mail and News 1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Mon, 18 Dec 1995 16:24:10
From: ke4eer@ro.com (William Nolle)
To: aprssig@tapir.org
Subject: Re: [APRSSIG:5291] RE: APRS Over LL BBS?

Well Keith i wasn't thinking of sending the data via serial port, but rather via audio via soundblaster and Iphone. Maybe i'm still wrong about this but arent we doing the same thing now. that is receiving and sending packet via the Radio's audio?. (Those in the dark would like to know hi).

Bill KE4EER

>> Is it possible to receive APRS data over a telephone type modem via a
>> land-line bbs with a tnc door? Has anyone tried this?
>>
>
>
>Would this be possible? Sure..
>
>Will it work now??? NO...
>
>
>
>The problem is that the data that gets sent via the SERIAL PORT is only
>the DATA part of the packet, i.e.
>
> @181200/4012.34N/07412.34W Metc etc etc
>
>The part that the program expects to see is:
>
> WU2Z*>APRS:<the same as above)
>
>
>The call sign and TO field (APRS) get added by the TNC, and this would
>not be present if you simply hooked the serial ports to a pair of modems..
>
>
>For it to be possible, we (Bob and I) would have to write a NEW mode, and it

>probably wouldn't be worth it..

>

>You could however, dump P-Lists, and send them over a modem, and load them in
>at the other end..

>

>

>Keith

>

>

>

>Keith Sproul

Ham Radio: WU2Z

>Student Housing Network Coordinator

ksproul@noc.rutgers.edu

>Rutgers University Computing Services

908 445-3695 Work 908 445-2968 Fax

><http://www-ns.rutgers.edu/~ksproul/>

908 821-4828 Home

>

From JCOSTER@WVNVM.WVNET.EDU Mon Dec 18 16:37:36 1995

Received: from WVNVM.WVNET.EDU (wvnvm.wvnet.edu [129.71.2.4]) by sys1.tappr.org
(8.7.2/8.7.2) with SMTP id QAA10849 for <aprssig@TAPR.ORG>; Mon, 18 Dec 1995
16:37:33 -0600 (CST)

Message-Id: <199512182237.QAA10849@sys1.tappr.org>

Received: from WVNVM.WVNET.EDU by WVNVM.WVNET.EDU (IBM VM SMTP V2R3)
with BSMTP id 6165; Mon, 18 Dec 95 17:36:14 EST

Received: from WVNVM.WVNET.EDU (NJE origin JCOSTER@WVNVM) by WVNVM.WVNET.EDU
(LMail V1.2a/1.8a) with BSMTP id 2341; Mon, 18 Dec 1995 17:36:14 -0500

Date: Mon, 18 Dec 1995 17:36:13 -0500 (EST)

From: "Coster, Jack Eugene" <JCOSTER@WVNVM.WVNET.EDU>

To: <aprssig@tappr.org>

Subject: Re: [APRSSIG:5263] Re: GPS, Altitud

In-Reply-To: Message of 12/17/95 at 17:30:12 from bruninga@nadn.navy.mil

Right on Bob! Some may forget that NAVStar was built as a military system for weapons delivery and navigation. We really are fortunate to be able to play around

with our trivial little toys on a system that is literally out of this world.

Keep up the good work with APRS. (But we really don't need the version of the week, Bob. HI.)

de Jack Coster. WF8x.

From n2czf@gate.net Mon Dec 18 17:20:08 1995

Received: from osceola.gate.net (osceola.gate.net [199.227.0.18]) by sys1.tappr.org
(8.7.2/8.7.2) with SMTP id RAA12432 for <aprssig@tappr.org>; Mon, 18 Dec 1995
17:20:00 -0600 (CST)

From: n2czf@gate.net

Received: from 199.227.125.161 (wpbf12-33.gate.net [199.227.125.161]) by
osceola.gate.net (8.6.12/8.6.9) with SMTP id SAA23546 for <aprssig@tappr.org>; Mon,
18 Dec 1995 18:21:02 -0500

Date: Mon, 18 Dec 1995 18:21:02 -0500

Message-Id: <199512182321.SAA23546@osceola.gate.net>

MIME-Version: 1.0

Content-Type: text/plain

Content-Transfer-Encoding: 7bit

Subject: [APRSSIG:5256] Ad in This Month's QST ???
To: aprssig@tapr.org
X-Mailer: SPRY Mail Version: 04.00.06.17

<----- Begin Forwarded Message ----->

>From: Bob Bruninga <bruninga@nadn.navy.mil>
>To: aprssig@tapr.org
>Subject: [APRSSIG:5256] Re: Grabber.exe

>APR REPLY: No, actually I meant something else... You will notice a
>product announcement in this months QST saying something about APRS and
>Windows...

>-----
>|DE WB4APR in Annapolis MD.|
>-----

<----- End Forwarded Message ----->

This is news to me! December or January issue of QST, I thought I looked over all the ads but I saw nothing about APRS and Windows.

I did see a full page ad for Health Insurance in the January issue and was shocked! I E-Mailed the ARRL and the Advertising department and told them how inappropriate I thought this was, anyone else feels this way tell them also at qst@arrl.org!

NNN the Soapbox

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

From n2czf@gate.net Mon Dec 18 17:21:45 1995
Received: from osceola.gate.net (osceola.gate.net [199.227.0.18]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id RAA12560 for <aprssig@tapr.org>; Mon, 18 Dec 1995 17:21:42 -0600 (CST)
From: n2czf@gate.net
Received: from 199.227.125.161 (wpbfl2-33.gate.net [199.227.125.161]) by osceola.gate.net (8.6.12/8.6.9) with SMTP id SAA36062 for <aprssig@tapr.org>; Mon, 18 Dec 1995 18:22:43 -0500
Date: Mon, 18 Dec 1995 18:22:43 -0500
Message-Id: <199512182322.SAA36062@osceola.gate.net>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Subject: Re: [APRSSIG:5291] RE: APRS Over LL BBS?
To: aprssig@tapr.org
X-Mailer: SPRY Mail Version: 04.00.06.17

Well after reading all the mail on APRS over LL BBS's that reminded me that Bob

was working on such a feature quite a while back. I think that this past year has seen such a tremendous increase in internet that the LL BBS idea may be better made into a INTERNET process.

Packet<->Internet Gateways are already a common thing in many areas of the world so the APRS<->Internet idea should not be that big of a thing to accomplish by a well versed person. With the Internet packet Chat channels I believe that a dedicated system is needed, that is a luxury that many do not have unless their company is willing to donate some bandwidth to the "cause". The best way would be to have the ability to do it with a regular PPP account that many of us already have. For a few extra \$\$\$ many providers will allow unlimited access and many users already have a extra phone line and PC to get the job done.

Internet Phone is a great way to link distant repeaters with simple equipment and I have done this several times but we are talking a different bandwidth here and a strict kind of audio. I have never tried this but how easy is it to have a TNC decode packet signals from a tape recorder, I do not think this is a very easy task and if possible would need some good audio equipment. With internet phone the audio can cut in and out and also vary in frequency response. We got to go digital to digital.

I know of one person that is on the sig and is probably reading this that can do this in the blink of an eye. He is the smartest person of the land <grin> and a internet-ip-aprs-packet-software...etc.etc. guru! He knows who he is maybe in the future this can become a reality.

Food for Thought
73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

From randyh@gvgadg.gvg.TEK.COM Mon Dec 18 17:26:15 1995
Received: from inet1.tek.com (inet1.tek.com [134.62.48.21]) by sys1.tappr.org (8.7.2/8.7.2) with SMTP id RAA12737 for <aprssig@tappr.org>; Mon, 18 Dec 1995 17:26:12 -0600 (CST)
Received: by inet1.tek.com id <AA17700@inet1.tek.com>; Mon, 18 Dec 1995 15:25:33 -0800
Received: from tektronix.tek.com(134.62.48.24) by inet1 via smap (V1.3) id sma012321; Mon Dec 18 15:25:29 1995
Received: from gv-gate.gvg.tek.com by tektronix.TEK.COM (4.1/8.2) id AA20967; Mon, 18 Dec 95 15:25:25 PST
Received: from gvgadg.gvg.tek.com by gv-gate.gvg.tek.com (5.0/2.3) id AA01449; Mon, 18 Dec 1995 15:25:34 +0800
Received: from hallrpc (hallrpc.gvg.tek.com) by gvgadg.gvg.tek.com (4.1/SMI-4.1) id AA03575; Mon, 18 Dec 95 15:25:31 PST
Message-Id: <9512182325.AA03575@gvgadg.gvg.tek.com>
X-Sender: randyh@gvgadg.gvg.tek.com
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Mon, 18 Dec 1995 15:25:49 -0800

To: aprssig@tapr.org
From: randyh@gvgadg.gvg.TEK.COM (Randy Hall)
Subject: GPS-45 Auto Shut Off

While driving to work today, with my standalone tracker running, I noticed that my GPS-45 kept turning itself off. I thought it might be due to the transmitter, but still did it when the radio was turned off. I thought that maybe the pico was sending in the OFF command, but turned of the pico, and the GPS still turned itself off.

I unplugged the power/data cable, and noticed that the GPS's internal batteries were dead, no bar on the bar graph.

I thought I heard about some weird low battery problem with the GPS-45 that even with external power applied, that it would turned itself off.

Anyone else heard or noticed this?

Randy
WA2AGE

```
-----  
|                               My opinions are my own.                               |  
|                               |                                                       |  
|               My computer is multimedia deprived.               |  
|                               |                                                       |  
| Randy Hall WA2AGE   randyh@gvgadg.gvg.tek.com   Grass Valley Group   |  
|                               |                                                       |  
-----
```

From snabkey@wingsbbs.com Mon Dec 18 18:25:51 1995
Received: from wingsbbs.com ([205.243.16.10]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id SAA16579 for <aprssig@tapr.org>; Mon, 18 Dec 1995 18:25:48 -0600 (CST)
Message-Id: <199512190025.SAA16579@sys1.tapr.org>
Received: from 192.168.0.1_75! by wingsbbs.com
with SMTP (IPAD 0.9.2) id 1528100 ; Mon, 18 Dec 95 19:15:15 UTC
Comments: Authenticated sender is <snabkey@wingsbbs.com>
From: "Sam Nabkey" <snabkey@wingsbbs.com>
To: aprssig@tapr.org
Date: Mon, 18 Dec 1995 19:10:51 -0500
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Subject: More LL BBS stuff
X-Confirm-Reading-To: "Sam Nabkey" <snabkey@wingsbbs.com>
X-pmrqc: 1
Return-receipt-to: "Sam Nabkey" <snabkey@wingsbbs.com>
Priority: normal

X-mailer: Pegasus Mail for Windows (v2.23)

Anybody here use JNOS and DOS? I THINK we can use that system.

Anybody an expert? I have a running copy and our Club uses it on a BBS. (w8dc.ampr.org) connected to a Gateway. (Hamgate.gvsu.edu)

I have been offered a port for this use. We currently have a Wormhole to Ann Arbor Mi AND Tuson, AZ

Wonder if anybody wants to try this???

I am game...

Samuel T. Nabkey - WJ8T

{snabkey@wingsbbs.com}

From mead@skat.usc.edu Mon Dec 18 18:35:55 1995
Received: from skat.usc.edu (skat.usc.edu [128.125.253.131]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id SAA17023 for <aprssig@tapir.org>; Mon, 18 Dec 1995 18:35:52 -0600 (CST)
Received: from sol.usc.edu (mead@sol.usc.edu [128.125.253.141])
by skat.usc.edu (8.6.10/8.6.12+usc) with ESMTP
id QAA17090 for <aprssig@tapir.org>; Mon, 18 Dec 1995 16:35:34 -0800
Received: (from mead@localhost)
by sol.usc.edu (8.7.2/8.7.2/usc)
id QAA09091; Mon, 18 Dec 1995 16:35:32 -0800 (PST)
Date: Mon, 18 Dec 95 16:35:32 PST
From: Dick Mead <mead@skat.usc.edu>
To: aprssig@tapir.org
Subject: U-2000 serial pinout
Message-ID: <CMM.0.90.4.819333332.mead@sol.usc.edu>

Well, Peet could have just printed the info in the book instead of making everyone jump through the same hoops. So what's the pinout now? My guess is the port marked with the big H is the right port but the wires get changed around.

From horzepa@gdc.com Mon Dec 18 18:47:25 1995
Received: from gate3.gdc.com (gate3.gdc.com [199.98.150.5]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id SAA17176 for <aprssig@tapir.org>; Mon, 18 Dec 1995 18:47:23 -0600 (CST)
Received: from mailhost.gdc.com (esun19.gdc.com) by gate3.gdc.com with SMTP id AA28928
(5.67b/IDA-1.5 for <aprssig@tapir.org>; Mon, 18 Dec 1995 18:57:18 -0500
Received: from esun405.gdc.com by mailhost.gdc.com (4.1/GDC-eInternal/D-) via SMTP
id AA05317; Mon, 18 Dec 95 18:57:17 EST
From: horzepa@gdc.com (Stan Horzepa)
Message-Id: <9512182357.AA05317@mailhost.gdc.com>
Subject: MS reports

To: aprssig@tapr.org
Date: Mon, 18 Dec 1995 18:57:17 -0500 (EST)
X-Mailer: ELM [version 2.4 PL20]
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

Just to let you all know that I am collecting reports from the Geminids packet meteor scatter test, so keep those cards, letters and email comin!

73,

Stan, WA1LOU

--

| | | | |
|----------------------------------|---|----------------------|--------------------|
| Stan Horzepa | ~ | phone: | 203-758-1811 x7369 |
| Technical Writing Supervisor | ~ | email: | horzepa@gdc.com |
| General DataComm (MODEMS 'R' US) | ~ | radio: | WA1LOU |
| P. O. Box 1299 | ~ | packet radio mail: | WA1LOU@N4GAA |
| Middlebury, CT 06762-1299 | ~ | TCP/IP packet radio: | 44.88.4.8 |

~~~~~ What! - Me Worry? ~~~~~

From horzepa@gdc.com Mon Dec 18 18:47:29 1995  
Received: from gate3.gdc.com (gate3.gdc.com [199.98.150.5]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id SAA17194 for <aprssig@tapr.org>; Mon, 18 Dec 1995 18:47:27 -0600 (CST)  
Received: from mailhost.gdc.com (esun19.gdc.com) by gate3.gdc.com with SMTP id AA28846 (5.67b/IDA-1.5 for <aprssig@tapr.org>); Mon, 18 Dec 1995 18:39:58 -0500  
Received: from esun405.gdc.com by mailhost.gdc.com (4.1/GDC-eInternal/D-) via SMTP id AA04446; Mon, 18 Dec 95 18:39:57 EST  
From: horzepa@gdc.com (Stan Horzepa)  
Message-Id: <9512182339.AA04446@mailhost.gdc.com>  
Subject: Re: [APRSSIG:5192] Re: Geminids Test Announcement  
To: aprssig@tapr.org  
Date: Mon, 18 Dec 1995 18:39:57 -0500 (EST)  
In-Reply-To: <0d0fcf60@acmspgw1.mnet.uswest.com> from "dwetzel@acs.uswest.com" at Dec 14, 95 11:40:46 pm  
X-Mailer: ELM [version 2.4 PL20]  
Mime-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit

Here is the answer a little late, but good for future reference...

39 degrees North, 96 degrees West

73,

Stan, WA1LOU

--

|                              |   |        |                    |
|------------------------------|---|--------|--------------------|
| Stan Horzepa                 | ~ | phone: | 203-758-1811 x7369 |
| Technical Writing Supervisor | ~ | email: | horzepa@gdc.com    |



General DataComm (MODEMS 'R' US) ~ radio: WA1LOU  
P. O. Box 1299 ~ packet radio mail: WA1LOU@N4GAA  
Middlebury, CT 06762-1299 ~ TCP/IP packet radio: 44.88.4.8

~~~~~ What! - Me Worry? ~~~~~

From pmm@safn2.saf.com Mon Dec 18 19:41:38 1995
Received: from relay5.UU.NET (relay5.UU.NET [192.48.96.15]) by sys1.tapir.org
(8.7.2/8.7.2) with ESMTP id TAA19147 for <aprssig@tapir.org>; Mon, 18 Dec 1995
19:41:35 -0600 (CST)
Received: from uucp1.UU.NET by relay5.UU.NET with SMTP
id QQzusk22651; Mon, 18 Dec 1995 20:41:32 -0500 (EST)
Received: from safn2.UUCP by uucp1.UU.NET with UUCP/RMAIL
; Mon, 18 Dec 1995 20:41:32 -0500
Received: from safn8.saf.com by safn2.saf.com id aa09665; 18 Dec 95 20:07 EST
From: Penn M McClatchey <pmm@safn2.saf.com>
X-Mailer: SCO System V Mail (version 3.2)
To: aprssig@tapir.org
Subject: AEA PK232
Date: Mon, 18 Dec 95 20:07:11 EST
Message-ID: <9512182007.aa00348@safn8.saf.com>

I hope I'm not asking a stupid question. Probably am, but here goes. I've been using APRS for about two weeks. I put my registration form in the mail Saturday. Everything works great on VHF. On HF, everything seemed to work well on Saturday the first time I ran it. I was xmitting packets. Yesterday and today, I can get it to receive fine, but not to xmit. APRS tries to make the TNC xmit, but it won't. When I go to View screen, it looks like APRS is sending an error message "too many packets outstanding" to the TNC. It is possible that this is an AEA error message, though I've never seen it before. With I try to talk directly to the TNC in APRS using O-C-T, I can't get the TNC to give me the error message, so I'm thinking it is generated by APRS.

Now for something strange: when I go into Pactor (using different software but the same TNC) and send something, it prefaces my xmission with the APRS packets I would've expected to send under APRS. So APRS isn't getting the AEA to transmit its buffer, I guess?

I am not using a GPS. I am simply running APRS though COM1. I have also tried initializing the TNC and then running Alt-S-T to initialize everything, but nothing seems to help.
Any ideas/suggestions would be very much appreciated.

BTW, I ran the meteor scatter routine last Thursday evening. 50 W into an 11 el yagi pointed at MD. Nothing heard.

73 de Penn

Penn M. McClatchey (Southern Aluminum Finishing Co, Atlanta, GA, USA)
Architectural Aluminum. Custom Fabrication. Paint, Powder Coating, Anodizing.
pmm@saf.com Amateur Radio WB4DPT Voice: 404-355-1560,ext231

From pes@gv.net Mon Dec 18 19:59:30 1995
Received: from main.gv.net (root@main.gv.net [205.162.164.2]) by sys1.tapir.org
(8.7.2/8.7.2) with SMTP id TAA19781 for <aprssig@tapir.org>; Mon, 18 Dec 1995
19:59:28 -0600 (CST)
Received: from ppp5.gv.net (ppp5.gv.net [205.162.164.54]) by main.gv.net
(8.6.9/8.6.9) with SMTP id RAA21395 for <aprssig@tapir.org>; Mon, 18 Dec 1995
17:56:09 -0800
Message-Id: <199512190156.RAA21395@main.gv.net>
X-Sender: pes@main.gv.net
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Mon, 18 Dec 1995 17:05:59 -0800
To: aprssig@tapir.org
From: pes@gv.net (Peter Short)
Subject: Re: [APRSSIG:5298] APRS not working on com 3

> I installed a new VLB enhanced IO board in the machine and I can get
> everything to work on com 3 but aprs. Anyone have any Ideas.
> Norm WB6SHI
>
> Check and see if the jumper is set for com3 on the I/O board. VLB I/O boards are
kind of tricky.
>

From jleonard@tbcnet.com Mon Dec 18 20:16:39 1995
Received: from tbc2.tbcnet.com (jleonard@tbc2.tbcnet.com [205.199.1.5]) by
sys1.tapir.org (8.7.2/8.7.2) with SMTP id UAA20308 for <aprssig@tapir.org>; Mon, 18
Dec 1995 20:16:35 -0600 (CST)
Received: (from jleonard@localhost) by tbc2.tbcnet.com (8.6.12/8.6.12) id
UAA02288; Mon, 18 Dec 1995 20:16:19 -0600
Date: Mon, 18 Dec 1995 20:16:18 -0600 (CST)
From: Barry Leonard <jleonard@tbcnet.com>
To: APRS SIG <aprssig@tapir.org>
Subject: License Class/Gate
Message-ID: <Pine.LNX.3.91.951218201306.1755D-100000@tbc2.tbcnet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi there, and happy holidays!
Would somebody refresh my memory if a certain class of Ham license is
required for a station to be a GATE?

Thanks,
Barry Leonard
jleonard@tbcnet.com
N9VJQ

From rkramer@cdx.net Mon Dec 18 20:41:37 1995
Received: from cdx.net (www.cdx.net [204.101.129.2]) by sys1.tapir.org
(8.7.2/8.7.2) with SMTP id UAA21310 for <aprssig@tapir.org>; Mon, 18 Dec 1995
20:41:33 -0600 (CST)
Received: from ron_k.vaxxine.com (204.101.129.57) by cdx.net id
<A19951219024123355@cdx.net>; Mon, 18 Dec 1995 21:41:23 -0500
From: rkramer@cdx.net (Ronald Kramer)
To: aprssig@tapir.org
Subject: Re: [APRSSIG:5311] Re: APRS not working on com 3
Date: Tue, 19 Dec 1995 02:41:08 GMT
Message-Id: <30d62580.19036258@mail.cdx.net>
References: <199512190156.RAA21395@main.gv.net>
In-Reply-To: <199512190156.RAA21395@main.gv.net>
X-Mailer: Forte Agent .99c/16.141

On Mon, 18 Dec 1995 20:26:11 -0600 (CST), you wrote:

>> I installed a new VLB enhanced IO board in the machine and I can get
>>everything to work on com 3 but aprs. Anyone have any Ideas.
>> Norm WB6SHI
>>
>Check and see if the jumper is set for com3 on the I/O board.VLB I/O boards are
>kind of tricky.
>>
>

Actually it's quite simple.... APRS does not work with Com 3 or 4
only com 1 and 2 are supported.

Regards, Ron ... 73 de Ron
Internet: rkramer@cdx.net (Ron Kramer)
Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)

From farver@uwplatt.edu Mon Dec 18 21:01:18 1995
Received: from palm (palm.ucs.uwplatt.edu [137.104.128.22]) by sys1.tapir.org
(8.7.2/8.7.2) with ESMTP id VAA21961 for <aprssig@tapir.org>; Mon, 18 Dec 1995
21:01:15 -0600 (CST)
Received: from alvin (137.104.135.43) by uwplatt.edu (PMDF V4.3-13 #7577)
id <01HYYLW1BZQ8IF78P8@uwplatt.edu>; Mon, 18 Dec 1995 17:35:19 -0600 (CST)
Date: Mon, 18 Dec 1995 17:36:25 -0600
From: "Mark Farver (KB9JMZ)" <farver@uwplatt.edu>
Subject: Re: [APRSSIG:5301] RE: APRS Over LL BBS?
X-Sender: farver@pop.uwplatt.edu
To: aprssig@tapir.org
Message-id: <01HYYLW1G0EQIF78P8@uwplatt.edu>
MIME-version: 1.0
X-Mailer: Windows Eudora Pro Version 2.1.2
Content-type: text/plain; charset="us-ascii"
Content-transfer-encoding: 7BIT

At 05:01 PM 12/18/95 -0600, you wrote:
>Well Keith i wasn't thinking of sending the data via serial port, but
rather via
>audio via soundblaster and Iphone. Maybe i'm still wrong about this but arent

>we doing the same thing now. that is receiving and sending packet via the
>Radio's audio?. (Those in the dark would like to know hi).

No way could you send TNC audio data using Iphone, the distortion and timing problems would make it impossible. Plus the Internet bandwidth (about 4k byte a sec) used by Iphone would be wasted on a 1200 baud datalink. It would, however, be fairly simple for Keith to add Winsock support to the Windoze version. This would allow both Internet and LAN sharing of APRS data. (The new Winsock specs call for Winsock to become the standard network interface for everything from TCP/IP to Netware). It would be kinda neat for someone like me (who lives in an area with almost no APRS activity) to be able to log onto a radio/internet gateway server and see activity from several nets around the country.

Mark
KB9JMJZ

From rtucker@crasher2.ttgciitn.com Mon Dec 18 21:46:13 1995
Received: from insosf1.netins.net (ttgciitn@insosf1.netins.net [167.142.225.5]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id VAA23267 for <aprssig@tapir.org>; Mon, 18 Dec 1995 21:46:11 -0600 (CST)
Received: (from ttgciitn@localhost) by insosf1.netins.net id VAA22877 for aprssig@tapir.org; Mon, 18 Dec 1995 21:46:05 -0600
Received: (from rtucker@localhost) by crasher2.ttgciitn.com (8.6.12/8.6.12) id VAA06208 for aprssig@tapir.org; Mon, 18 Dec 1995 21:38:17 -0600
From: Ryan Tucker <rtucker@crasher2.ttgciitn.com>
Message-Id: <199512190338.VAA06208@crasher2.ttgciitn.com>
Subject: Re: [APRSSIG:5314] RE: APRS Over LL BBS?
To: aprssig@tapir.org
Date: Mon, 18 Dec 1995 21:38:16 -0600 (CST)
In-Reply-To: <01HYLW1G0EQIF78P8@uwplatt.edu> from "Mark Farver" at Dec 18, 95 09:14:57 pm
X-Mailer: ELM [version 2.4 PL24]
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

Thus spake Mark Farver, splattered hither:

> interface for everything from TCP/IP to Netware). It would be kinda neat for
> someone like me (who lives in an area with almost no APRS activity) to be
> able to log onto a radio/internet gateway server and see activity from
> several nets around the country.

Sort of a high-bandwidth version of HF? :-)

Possibly something based on IRC (RFC 1459) would be good ... it's a well-used distributed platform mostly used for chat, but it could be used for APRS too. It's fast ("slow" is considered 3 seconds from, say, michigan to australia), high-bandwidth, easy to code for, etc.

If you'd like to go this route, give me a shout. Would fit in nicely with an X version of APRS, yaknow? ;-)

--

Ryan Tucker
rtucker@ttgcitn.com
http://www.ttgcitn.com

ttgcitn.com owner
ann-arbor.mi.us.undernet.org irc admin
netins.net user development group

From amirault@laraby.tiac.net Mon Dec 18 21:49:05 1995
Received: from laraby.tiac.net (root@laraby.tiac.net [199.0.65.80]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id VAA23598 for <aprssig@tapr.org>; Mon, 18
Dec 1995 21:49:02 -0600 (CST)
Received: (from amirault@localhost) by laraby.tiac.net (8.6.9/8.6.6.Beta9) id
WAA01068; Mon, 18 Dec 1995 22:49:00 -0500
Date: Mon, 18 Dec 1995 22:48:59 -0500 (EST)
From: Richard Amirault <amirault@laraby.tiac.net>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5312] License Class/Gate
In-Reply-To: <Pine.LNX.3.91.951218201306.1755D-100000@tbc2.tbcnet.com>
Message-ID: <Pine.BSF.3.91.951218224538.632B-100000@laraby.tiac.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 18 Dec 1995, Barry Leonard wrote:

> Hi there, and happy holidays!
> Would somebody refresh my memory if a certain class of Ham license is
> required for a station to be a GATE?
>
That's easy you have to have a TECHNICIAN class or above.

This assumes that you're operating the GATE as Bob suggests (from HF to
VHF only)

Richard Amirault
amirault@tiac.net

N1JDU
"Go Fly A Kite"

Boston, Massachusetts USA

From W2HOB@aol.com Mon Dec 18 21:54:36 1995
Received: from mail06.mail.aol.com (mail06.mail.aol.com [152.163.172.108]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id VAA23678 for <aprssig@tapr.org>; Mon, 18
Dec 1995 21:54:34 -0600 (CST)
From: W2HOB@aol.com
Received: by mail06.mail.aol.com (8.6.12/8.6.12) id RAA08795 for aprssig@tapr.org;
Mon, 18 Dec 1995 17:51:10 -0500
Date: Mon, 18 Dec 1995 17:51:10 -0500
Message-ID: <951218175110_75507548@mail06.mail.aol.com>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5294] Re: Previous call for help

In a message dated 95-12-18 17:19:29 EST, you write:

>> "I then turn off the TNC and plug in the U-2000 with the green wire going
>> to pin 2 on the TNC and the black wire going to pin 1 or ground. The
>> U-2000 mode is programmed to the packet mode. (clear with wind chill)
>>
>> I have tried many alternatives but to no avail.

>> I am using an AEA Pk-12 along with the U-2000
>>

To the fellow wiring a U-2000 to a TNC... pin 1 is FRAME GROUND.
Try Pin 7 - SIGNAL GROUND and see what effect that has.

Also, try feeding the data output from the U-2000 into a dumb terminal or
a PC running ProComm or TELIX or some such plain vanilla comm prog.
Determine whether your Wx sta is putting out data with that cable.

Test each of the pie pieces separately!

Good Luck es 73 de Boyd (w2hob@aol.com)

From bruninga@nadm.navy.mil Mon Dec 18 22:08:53 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id WAA24259 for <aprssig@tapir.org>; Mon,
18 Dec 1995 22:08:51 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
TAA16673; Mon, 18 Dec 1995 19:42:57 -0500
Date: Mon, 18 Dec 1995 19:42:56 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:5289] APRS OVER LL BBS?
In-Reply-To: <199512181923.0AA02020@manny.rcinet.com>
Message-ID: <Pine.SUN.3.91.951218193803.16623B-1000000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 18 Dec 1995, Richard L. Holbert wrote:

> Is it possible to receive APRS data over a telephone type modem via a
> land-line bbs with a tnc door? Has anyone tried this?

APR REPLY: That was on my to-do list, until I got to thinking that the
WWW and the internet would be a better way... but I don't have a clue how
to write drivers for the internet... so now that Keith and Mark have
taken up the leading edge, maybe I can get back to the phone line thing...

But That requires SOMEONE in each region to BUY and maintain a phone line
for downloads... Is that worth it? Will anyone do it?

The way it would work, is that you bring up APRS. Tell it the phone
number you want it to dial. It dials the remote APRS site, gets a dump
of all the P,L lists, etc and then hangs up. You will not be allowed to
inject data into the remote APRS, but you will be updated as if you were
there! After the phone dial goes through, the whole thing should take
about 10 seconds...

|DE WB4APR in Annapolis MD.|

From rwf@mindspring.com Mon Dec 18 22:13:42 1995
Received: from borg.mindspring.com (root@borg.mindspring.com [204.180.128.14]) by sys1.taprr.org (8.7.2/8.7.2) with SMTP id WAA24361 for <aprssig@taprr.org>; Mon, 18 Dec 1995 22:13:39 -0600 (CST)
Received: from rwf.mindspring.com [168.121.44.154] by borg.mindspring.com with SMTP id XAA24354 for <aprssig@taprr.org>; Mon, 18 Dec 1995 23:13:26 -0500
Date: Mon, 18 Dec 1995 23:13:26 -0500
Message-Id: <199512190413.XAA24354@borg.mindspring.com>
X-Sender: rwf@mindspring.com
X-Mailer: Windows Eudora Version 2.1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@taprr.org
From: rwf <rwf@mindspring.com>
Subject: Re: [APRSSIG:5312] License Class/Gate

Only the class of license for the frequency you are transmitting on.
If you can talk on 2 meters, then it is fine to GATE from HF to VHF *one way*

If you can talk on 30 meters, you can do it the other way, too.

Ralph

At 08:26 PM 12/18/95 -0600, you wrote:
>Hi there, and happy holidays!
>Would somebody refresh my memory if a certain class of Ham license is
>required for a station to be a GATE?
>
>Thanks,
>Barry Leonard
>jleonard@tbcnet.com
>N9VJQ
>
>

From largriff@Onramp.NET Mon Dec 18 22:14:27 1995
Received: from mailhost.onramp.net (mailhost.onramp.net [199.1.11.3]) by sys1.taprr.org (8.7.2/8.7.2) with SMTP id WAA24409 for <aprssig@taprr.org>; Mon, 18 Dec 1995 22:14:24 -0600 (CST)
Received: from ToshY (lub03.onramp.net [199.1.172.131]) by mailhost.onramp.net (8.6.12/8.6.5) with SMTP id WAA08816 for <aprssig@taprr.org>; Mon, 18 Dec 1995 22:14:21 -0600
Message-Id: <199512190414.WAA08816@mailhost.onramp.net>
Comments: Authenticated sender is <largriff@mailhost.onramp.net>
From: "Larry Griffin" <largriff@Onramp.NET>
To: aprssig@taprr.org
Date: Mon, 18 Dec 1995 22:14:17 +0000
Subject: WinAPRS Docs

Reply-to: Larry Griffin <largriff@Onramp.NET>
Priority: normal
X-mailer: Pegasus Mail for Windows (v2.23)

Those of you who are anxiously awaiting the imminent release of WinAPRS will want to read Keith Sproul's WinAPRS documentation webpage at:

<http://www-ns.rutgers.edu/~ksproul/APRS/WinAPRSdocs.html>

Larry Griffin <largriff@onramp.net>

From jerdptro@xnet.com Mon Dec 18 22:21:06 1995
Received: from flood.xnet.com (flood.xnet.com [198.147.221.35]) by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id WAA24855 for <aprssig@tapr.org>; Mon, 18 Dec 1995 22:21:04 -0600 (CST)
Received: from n9vhw.xnet.com by flood.xnet.com (8.7/XNet-1.4R) with SMTP id WAA00632 for <aprssig@tapr.org>; Mon, 18 Dec 1995 22:14:17 -0600 (CST)
Message-Id: <199512190414.WAA00632@flood.xnet.com>
Comments: Authenticated sender is <jerdptro@quake.xnet.com>
From: "Jerry" <jerdptro@xnet.com>
To: aprssig@tapr.org
Date: Mon, 18 Dec 1995 22:20:58 +0000
Subject: Re: [APRSSIG:5312] License Class/Gate
Reply-to: jerdptro@xnet.com
Priority: normal
X-mailer: Pegasus Mail for Windows (v2.20)

Hi Barry,
I think that novices and tech cannot be a GATE transmitter on 30 meters, at least not for long! *>).
Happy Holidays
Jerry
Jerry Di Pietro
N9VHW
Streamwood, IL
jerdptro@xnet.com

From W2H0B@aol.com Mon Dec 18 22:21:20 1995
Received: from mail06.mail.aol.com (mail06.mail.aol.com [152.163.172.108]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id WAA24873 for <aprssig@tapr.org>; Mon, 18 Dec 1995 22:21:17 -0600 (CST)
From: W2H0B@aol.com
Received: by mail06.mail.aol.com (8.6.12/8.6.12) id XAA20942 for aprssig@tapr.org; Mon, 18 Dec 1995 23:20:45 -0500
Date: Mon, 18 Dec 1995 23:20:45 -0500
Message-ID: <951218211906_57900175@mail06.mail.aol.com>
To: aprssig@tapr.org
Subject: 7.4E and U-2000

Bob, WB4APR
Keith, WU2Z

Regarding CommBufferOveflows with the U-2000

Bob, you suggested setting the AltS-PosRate to 8 seconds in an effort, I think, for APRS to go get the string from the U-2000 before it could fill up the CommBuffer. That reduced the Overflow here but did not eliminate it, so I set the rate for 5-seconds and I've been running for over an hour with NO OVERFLOW.

Initially, and at times, I see a "cmd:" line with some TNC parms slip out onto the air but these are soon "overbeaconed" by the next Posit or "regular" beacon... is this the bug that was reported to you guys besides the overflow problem?

Just to let you know about the 8 vs 5 second "sampling" rate...

73 de Boyd (w2hob@aol.com)

From pes@gv.net Mon Dec 18 22:22:15 1995
Received: from main.gv.net (root@main.gv.net [205.162.164.2]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id WAA24891 for <aprssig@tapir.org>; Mon, 18 Dec 1995 22:22:12 -0600 (CST)
Received: from ppp8.gv.net (ppp8.gv.net [205.162.164.57]) by main.gv.net (8.6.9/8.6.9) with SMTP id VAA21972 for <aprssig@tapir.org>; Mon, 18 Dec 1995 21:12:01 -0800
Message-Id: <199512190512.VAA21972@main.gv.net>
X-Sender: pes@main.gv.net
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Mon, 18 Dec 1995 20:21:44 -0800
To: aprssig@tapir.org
From: pes@gv.net (Peter Short)
Subject: Re: [APRSSIG:5313] Re: APRS not working on com 3

>On Mon, 18 Dec 1995 20:26:11 -0600 (CST), you wrote:

>
>>> I installed a new VLB enhanced IO board in the machine and I can get
>>>everything to work on com 3 but aprs. Anyone have any Ideas.
>>> Norm WB6SHI
>>>
>>Check and see if the jumper is set for com3 on the I/O board.VLB I/O
boards are
>>kind of tricky.
>>>
>>
> Actually it's quite simple.... APRS does not work with Com 3 or 4
>only com 1 and 2 are supported.
>

>Regards, Ron ... 73 de Ron
> Internet: rkramer@cdx.net (Ron Kramer)

> Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)
>
>Yes it does work on com3 and com 4.I have a pp88 and its configured for com 4.
>

From schiers@ibm.net Mon Dec 18 22:28:06 1995
Received: from smtp-gw01.ny.us.ibm.net ([165.87.194.252]) by sys1.tapir.org
(8.7.2/8.7.2) with SMTP id WAA24926 for <aprssig@tapir.org>; Mon, 18 Dec 1995
22:28:03 -0600 (CST)
Received: (from uucp@localhost) by smtp-gw01.ny.us.ibm.net (8.6.9/8.6.9) id
CAA09410 for <aprssig@tapir.org>; Tue, 19 Dec 1995 02:49:25 GMT
Message-Id: <199512190249.CAA09410@smtp-gw01.ny.us.ibm.net>
Received: from slip230-90.mo.us.ibm.net(129.37.230.90) by smtp-gw01.ny.us.ibm.net
via smap (V1.3mjr)
id smaJbQDFW; Tue Dec 19 02:49:20 1995
Date: Tue, 19 Dec 95 02:44:56 EST
From: schiers@ibm.net (hasan schiers)
Reply-To: schiers@ibm.net (hasan schiers)
To: aprssig@tapir.org
X-Mailer: hasan schiers's PMMail v1.1
Subject: Re: [APRSSIG:5272] Re: Overflow with U-2000

By the way, Bob, is anyone besides me telling you about the U-2000
overflow problem or are you and I the only ones playing with it at
this point? I talked with KG0DW this afternoon and his U-2000 just
showed up. He hasn't put it on yet, waiting to see how you and I
make out.

BTW the machine is a 486dx2/80 with 8 mb RAM, so it ain't a slow
machine problem. 73,

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

From jerdptro@xnet.com Mon Dec 18 22:37:34 1995
Received: from flood.xnet.com (flood.xnet.com [198.147.221.35]) by sys1.tapir.org
(8.7.2/8.7.2) with ESMTP id WAA25438 for <aprssig@tapir.org>; Mon, 18 Dec 1995
22:37:31 -0600 (CST)
Received: from n9vhw.xnet.com by flood.xnet.com (8.7/XNet-1.4R) with SMTP
id WAA01633 for <aprssig@tapir.org>; Mon, 18 Dec 1995 22:30:43 -0600 (CST)
Message-Id: <199512190430.WAA01633@flood.xnet.com>
Comments: Authenticated sender is <jerdptro@quake.xnet.com>
From: "Jerry" <jerdptro@xnet.com>
To: aprssig@tapir.org
Date: Mon, 18 Dec 1995 22:23:50 +0000
Subject: Re: [APRSSIG:5267] Stolen callsigns
Reply-to: jerdptro@xnet.com
Priority: normal
X-mailer: Pegasus Mail for Windows (v2.20)

Interestingly Bob, this happens on the Mac Version 2.12 with

regularity. Never happened until this version. I know your not a Mac kinda guy, but thot I'd let u know. Using KAM PLUS.

Happy Holidays

Jerry

N9VHW

Jerry Di Pietro

N9VHW

Streamwood, IL

jerdptro@xnet.com

From schiers@ibm.net Mon Dec 18 22:38:09 1995

Received: from smtp-gw01.ny.us.ibm.net ([165.87.194.252]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id WAA25463 for <aprssig@tapir.org>; Mon, 18 Dec 1995 22:38:06 -0600 (CST)

Received: (from uucp@localhost) by smtp-gw01.ny.us.ibm.net (8.6.9/8.6.9) id AAA09425 for <aprssig@tapir.org>; Tue, 19 Dec 1995 00:45:08 GMT

Message-Id: <199512190045.AAA09425@smtp-gw01.ny.us.ibm.net>

Received: from slip230-107.mo.us.ibm.net(129.37.230.107) by smtp-gw01.ny.us.ibm.net via smap (V1.3mjr)

id smaL7oDM2; Tue Dec 19 00:45:02 1995

Date: Tue, 19 Dec 95 00:44:30 EST

From: schiers@ibm.net (hasan schiers)

Reply-To: schiers@ibm.net (hasan schiers)

To: aprssig@tapir.org

X-Mailer: hasan schiers's PMMail v1.1

Subject: Re: [APRSSIG:5283] APRS WX stuff

On Mon, 18 Dec 1995 09:48:11 -0600 (CST) you wrote:

>2) I have hooked my U-2000 back up and it seems to run fine. WOUld those
>stations having problems, set your WX update rate at something short like
>8 seconds and then comment on any changes in the observed symptoms
>relative to what you were experiencing before? Thanks...

>

>-----

>|DE WB4APR in Annapolis MD.|

>-----

I have tried to set it below 5, but it won't go...and still getting crashes every few minutes while set at 5. Time to shut it off until the code gets fixed.

Nice try, Bob...it looked like there was promisebut looks like something more will be required. Please let us know...there are several U-2000's in the area waiting to come on line.

73,

robert "hasan" schiers

Ham Radio Packet: n0an@n0an.ia.usa.noam

From schiers@ibm.net Mon Dec 18 22:38:21 1995
Received: from smtp-gw01.ny.us.ibm.net ([165.87.194.252]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id WAA25472 for <aprssig@tapir.org>; Mon, 18 Dec 1995 22:38:09 -0600 (CST)
Received: (from uucp@localhost) by smtp-gw01.ny.us.ibm.net (8.6.9/8.6.9) id AAA36019 for <aprssig@tapir.org>; Tue, 19 Dec 1995 00:28:29 GMT
Message-Id: <199512190028.AAA36019@smtp-gw01.ny.us.ibm.net>
Received: from slip230-106.mo.us.ibm.net(129.37.230.106) by smtp-gw01.ny.us.ibm.net via smap (V1.3mjr)
id smaf6sDM2; Tue Dec 19 00:28:25 1995
Date: Tue, 19 Dec 95 00:27:03 EST
From: schiers@ibm.net (hasan schiers)
Reply-To: schiers@ibm.net (hasan schiers)
To: aprssig@tapir.org
X-Mailer: hasan schiers's PMMail v1.1
Subject: Re: [APRSSIG:5283] APRS WX stuff

On Mon, 18 Dec 1995 09:48:11 -0600 (CST) you wrote:

>2) I have hooked my U-2000 back up and it seems to run fine. WOULD those
>stations having problems, set your WX update rate at something short like
>8 seconds and then comment on any changes in the observed symptoms
>relative to what you were experiencing before? Thanks...

>

>-----
>|DE WB4APR in Annapolis MD.|

>-----

Ok guys, the third iteration:

1. Tried setting Wx update to 8 seconds. It helped, but crashed within 5 min
2. Tried setting Wx update to 5 seconds. Crashed after about 30 min
3. Just set Wx update to 3 seconds...more info later.

Bob: if you see this, it looks like you might have to re-code this. I don't know what kind of overhead price we are paying for trying to update every 3 seconds...and also don't know if it is going to eventually crash as in 1 and 2 above. Hope this helps. 73,

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

From schiers@ibm.net Mon Dec 18 22:38:36 1995
Received: from smtp-gw01.ny.us.ibm.net ([165.87.194.252]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id WAA25501 for <aprssig@tapir.org>; Mon, 18 Dec 1995 22:38:33 -0600 (CST)
Received: (from uucp@localhost) by smtp-gw01.ny.us.ibm.net (8.6.9/8.6.9) id XAA28045 for <aprssig@tapir.org>; Mon, 18 Dec 1995 23:43:21 GMT
Message-Id: <199512182343.XAA28045@smtp-gw01.ny.us.ibm.net>
Received: from slip230-106.mo.us.ibm.net(129.37.230.106) by smtp-gw01.ny.us.ibm.net via smap (V1.3mjr)

id smaLXADmb; Mon Dec 18 23:41:54 1995
Date: Mon, 18 Dec 95 23:35:52 EST
From: schiers@ibm.net (hasan schiers)
Reply-To: schiers@ibm.net (hasan schiers)
To: aprssig@tapr.org
X-Mailer: hasan schiers's PMMail v1.1
Subject: Re: [APRSSIG:5283] APRS WX stuff

On Mon, 18 Dec 1995 09:48:11 -0600 (CST) you wrote:

>
>2) I have hooked my U-2000 back up and it seems to run fine. WOULD those
>stations having problems, set your WX update rate at something short like
>8 seconds and then comment on any changes in the observed symptoms
>relative to what you were experiencing before? Thanks...

Correction: I got a crash, overrun type after about 10 mins of running. I
have changed the updates to 5 seconds to see if that helps.

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

From schiers@ibm.net Mon Dec 18 22:38:41 1995
Received: from smtp-gw01.ny.us.ibm.net ([165.87.194.252]) by sys1.tapr.org
(8.7.2/8.7.2) with SMTP id WAA25508 for <aprssig@tapr.org>; Mon, 18 Dec 1995
22:38:36 -0600 (CST)
Received: (from uucp@localhost) by smtp-gw01.ny.us.ibm.net (8.6.9/8.6.9) id
XAA12169 for <aprssig@tapr.org>; Mon, 18 Dec 1995 23:43:21 GMT
Message-Id: <199512182343.XAA12169@smtp-gw01.ny.us.ibm.net>
Received: from slip230-106.mo.us.ibm.net(129.37.230.106) by smtp-
gw01.ny.us.ibm.net via smap (V1.3mjr)

id smaLW8CKs; Mon Dec 18 23:41:50 1995
Date: Mon, 18 Dec 95 23:26:25 EST
From: schiers@ibm.net (hasan schiers)
Reply-To: schiers@ibm.net (hasan schiers)
To: aprssig@tapr.org
X-Mailer: hasan schiers's PMMail v1.1
Subject: Re: [APRSSIG:5283] APRS WX stuff

On Mon, 18 Dec 1995 09:48:11 -0600 (CST) you wrote:

>2) I have hooked my U-2000 back up and it seems to run fine. WOULD those
>stations having problems, set your WX update rate at something short like
>8 seconds and then comment on any changes in the observed symptoms
>relative to what you were experiencing before? Thanks...

Changing from the program's default to 8 seconds appears to work...at least
so far. I am no longer getting the crashes that plagued me earlier and the
only thing I changed was according to Bob's instructions as above.

Congrats Bob!

I have not started the program from scratch yet, to see if there are initialization problems, but simply re-registering the software and setting Wx update to 8 seconds solved the problem so far.

Thanks for giving us the hint, Bob. Looks like something that should go into the docs somewhere <g>....73,

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

From schiers@ibm.net Mon Dec 18 22:38:44 1995
Received: from smtp-gw01.ny.us.ibm.net ([165.87.194.252]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id WAA25522 for <aprssig@tapir.org>; Mon, 18 Dec 1995 22:38:40 -0600 (CST)
Received: (from uucp@localhost) by smtp-gw01.ny.us.ibm.net (8.6.9/8.6.9) id XAA12162 for <aprssig@tapir.org>; Mon, 18 Dec 1995 23:43:10 GMT
Message-Id: <199512182343.XAA12162@smtp-gw01.ny.us.ibm.net>
Received: from slip230-106.mo.us.ibm.net(129.37.230.106) by smtp-gw01.ny.us.ibm.net via smap (V1.3mjr)
id smaLV4DFW; Mon Dec 18 23:41:45 1995
Date: Mon, 18 Dec 95 23:40:53 EST
From: schiers@ibm.net (hasan schiers)
Reply-To: schiers@ibm.net (hasan schiers)
To: aprssig@tapir.org
X-Mailer: hasan schiers's PMMail v1.1
Subject: Re: [APRSSIG:5283] APRS WX stuff

On Mon, 18 Dec 1995 09:48:11 -0600 (CST) you wrote:

>2) I have hooked my U-2000 back up and it seems to run fine. WOULD those
>stations having problems, set your WX update rate at something short like
>8 seconds and then comment on any changes in the observed symptoms
>relative to what you were experiencing before? Thanks...

8 seconds produced a crash after about 10 mins running. Much improved, but still no cigar. I just changed the Wx update to 5 seconds and will watch it some more.

Incidentally, those of you with Ultimeater 2000 units who want to convert from inches of mercury (which is the typical unit of measure on TV and National Wx Service) to millibars, here is the formula:

Inches of Mercury * 33.86 = millibars of mercury

So if your U-2000 is set for in of mercury, you can check your APRS for a reading in millibars.

Currently my pressure is 30.13 in of mercury (Hg).
 $30.13 * 33.86 = 1020$ millibars. APRS is showing /B020 in the wx string, which corresponds to 1020 mB. If the pressure falls below 1000 mB, I

suspect the leading 0 would become a leading 9.

Have fun...

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

From farver@uwplatt.edu Mon Dec 18 22:58:13 1995
Received: from palm (palm.ucs.uwplatt.edu [137.104.128.22]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id WAA26151 for <aprssig@tapir.org>; Mon, 18 Dec 1995 22:58:09 -0600 (CST)
Received: from alvin (137.104.135.43) by uwplatt.edu (PMDf V4.3-13 #7577) id <01HYYX905IM8IF7BPF@uwplatt.edu>; Mon, 18 Dec 1995 23:00:20 -0600 (CST)
Date: Mon, 18 Dec 1995 23:01:35 -0600
From: "Mark Farver (KB9JMZ)" <farver@uwplatt.edu>
Subject: Re: [APRSSIG:5315] RE: APRS Over LL BBS?
X-Sender: farver@pop.uwplatt.edu
To: aprssig@tapir.org
Message-id: <01HYYX909SXUIF7BPF@uwplatt.edu>
MIME-version: 1.0
X-Mailer: Windows Eudora Pro Version 2.1.2
Content-type: text/plain; charset="us-ascii"
Content-transfer-encoding: 7BIT

At 09:55 PM 12/18/95 -0600, you wrote:

>> It would be kinda neat for
>> someone like me (who lives in an area with almost no APRS activity) to be
>> able to log onto a radio/internet gateway server and see activity from
>> several nets around the country.
>
>Sort of a high-bandwidth version of HF? :-)

Not everyone has enough space and/or money for an HF rig. ;-)

>Possibly something based on IRC (RFC 1459) would be good ... it's a well-used
>distributed platform mostly used for chat, but it could be used for APRS too.
>It's fast ("slow" is considered 3 seconds from, say, michigan to australia),
>high-bandwidth, easy to code for, etc.

IRC would probably be ideal. The interconnected servers already exist. Adding an APRS channel wouldn't be a problem. It would be unfortunate to leave the DOS people out of the game but it would solve the limited bandwidth available on HF for wide area networks.

Plus with the software interfacing to the internet Bob's idea of using the APRS query command to allow you to lookup someone by call and then display their QTH in APRS could be easily added by linking into on-line callsign databases.

Mark
KB9JMZ

From moyers@ibm.net Mon Dec 18 23:21:48 1995

Received: from smtp-gw01.ny.us.ibm.net ([165.87.194.252]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id XAA27357 for <aprssig@tapir.org>; Mon, 18 Dec 1995 23:21:45 -0600 (CST)

Received: (from uucp@localhost) by smtp-gw01.ny.us.ibm.net (8.6.9/8.6.9) id FAA15179 for <aprssig@tapir.org>; Tue, 19 Dec 1995 05:21:42 GMT

Message-Id: <199512190521.FAA15179@smtp-gw01.ny.us.ibm.net>

Received: from slip166-72-241-82.tn.us.ibm.net(166.72.241.82) by smtp-gw01.ny.us.ibm.net via smap (V1.3mjr)

id smalToDM2; Tue Dec 19 05:21:34 1995

X-Mailer: Post Road Mailer (Green Edition Ver 1.03a)

From: N4QEA <moyers@ibm.net>

To: aprssig@tapir.org

Date: Tue, 19 Dec 1995 00:24:13 EST

Reply-To: N4QEA <moyers@ibm.net>

Subject: Re: [APRSSIG:5299] RE: APRS Over LL BBS?

** Reply to note from Richard L. Holbert <rholtbert@manny.rcinet.com> 12/18/95 4:24pm -0600

> Ah, but, what I want to do is to use a machine with two serial ports. Com1
> hooked to the TNC and Com2 hooked to the modem. The computer just repeats
> what it hears on the TNC over the modem. The computer with the TNC doesn't
> even need to run APRS, but the computer on the other side of the telephone
> line would be running APRS without a TNC.

>

> This is just an extension of Bob's op-center idea, but using modems in lieu
> of serial lines.

>

> On Mon, 18 Dec 1995 15:09:58 -0600 (CST),

> aprssig@tapir.org wrote...

> >> Is it possible to receive APRS data over a telephone type modem via a

> >> land-line bbs with a tnc door? Has anyone tried this?

> >>

> >

> >

> >Would this be possible? Sure..

> >

> >Will it work now??? NO...

> >

> >

> >

> >The problem is that the data that gets sent via the SERIAL PORT is only
> >the DATA part of the packet, i.e.

> >

> > @181200/4012.34N/07412.34W Metc etc etc

> >

> >The part that the program expects to see is:

> >

> > WU2Z*>APRS:<the same as above>

> >

> >

> >The call sign and TO field (APRS) get added by the TNC, and this would

> >not be present if you simply hooked the serial ports to a pair of modems..
> >
> >
> >For it to be possible, we (Bob and I) would have to write a NEW mode, and
> >it
> >probably wouldn't be worth it..
> >
> >You could however, dump P-Lists, and send them over a modem, and load them
> >in
> >at the other end..
> >

I may be way out in left field.....but if you had a way to hook the modem directly
to the tnc
and then get the modem to only connect you to the TNC after a password.....then in
effect aprs
could talk to that TNC as though it was connected to it. Thats kinda how the
packet worm
holes used to work.

Just an idea to think about.

73

John Moyers
ARS; N4QEA
Packet; N4QEA @ N4QEA.#METN.TN.USA.NA
Inet; moyers@ibm.net
Cruise Missile; 36,02.89N/83,43.35W

From moyers@ibm.net Mon Dec 18 23:21:48 1995
Received: from smtp-gw01.ny.us.ibm.net ([165.87.194.252]) by sys1.tapir.org
(8.7.2/8.7.2) with SMTP id XAA27358 for <aprssig@tapir.org>; Mon, 18 Dec 1995
23:21:45 -0600 (CST)
Received: (from uucp@localhost) by smtp-gw01.ny.us.ibm.net (8.6.9/8.6.9) id
FAA01871 for <aprssig@tapir.org>; Tue, 19 Dec 1995 05:21:42 GMT
Message-Id: <199512190521.FAA01871@smtp-gw01.ny.us.ibm.net>
Received: from slip166-72-241-82.tn.us.ibm.net(166.72.241.82) by smtp-
gw01.ny.us.ibm.net via smap (V1.3mjr)
id smalToGzR; Tue Dec 19 05:21:38 1995
X-Mailer: Post Road Mailer (Green Edition Ver 1.03a)
From: N4QEA <moyers@ibm.net>
To: aprssig@tapir.org
Date: Tue, 19 Dec 1995 00:24:17 EST
Reply-To: N4QEA <moyers@ibm.net>
Subject: Re: [APRSSIG:5286] Previous call for help

** Reply to note from gwelte@blueox.bji.net 12/18/95 12:14pm -0600

Realizing the U-2000 is not operating properly with the APRS74e program I
> still must be doing something wrong since my station does not even come up
> on the map (discounting the weather). Listed below are the commands I put
> into the TNC for a remote weather station operation. I will try the single
> port mode later.
> Echo "Off"

```

> =46low "Off"
> Ilfpack "On" (LFIgnore)
> CPactime "On"
> SENDPAC "$01"
> Conmode "CONVERSE"
>
> My "NOWBU-1"
> UN APRS VIA RELAY
> GLOCTX "60"
> BT @ 230911/4733.30N/09452.59W_Bemidji Weather
> Beacon E 60
> GNMEA1 $ULTW
> TBAUD "2400"
> RESTART
> "Then I was putting in GPSMode 2, but now I understand that shouldn't be don=
> e".
> "I then turn off the TNC and plug in the U-2000 with the green wire going
> to pin 2 on the TNC and the black wire going to pin 1 or ground. The
> U-2000 mode is programmed to the packet mode. (clear with wind chill)
>
> I have tried many alternatives but to no avail.
> I am using an AEA Pk-12 along with the U-2000
>
> Any help will be appreciated - then I'll worry about the 2000 when Bob gets
> it working.
> Good work everyone and Thanks.
>
> GAW (N=D8WBU) Bemidji, Minnesota - gwelte@blueox.bji.net

```

Are you using a cable you made up, or is this the cable from PEET Brothers?
 Since the Pins are different on DB-9 and DB-25 cables I will not guess if your
 pinout is correct. My guess would be that you need to switch pin 2 and 3
 around. Remember you are plugging a modem into another modem, thus to connect
 them using a cable wired to be plugged into a computer you will either have to
 use a null modem cable or switch pins 2 & 3.

Hope this helps and 73

John Moyers
 ARS; N4QEA
 Packet; N4QEA @ N4QEA.#METN.TN.USA.NA
 Inet; moyers@ibm.net
 Cruise Missile; 36,02.89N/83,43.35W

From knupke@babbage.csee.usf.edu Mon Dec 18 23:50:08 1995
 Received: from babbage.csee.usf.edu (knupke@babbage.csee.usf.edu [131.247.1.2]) by
 sys1.tapr.org (8.7.2/8.7.2) with SMTP id XAA29069 for <aprssig@tapr.org>; Mon, 18
 Dec 1995 23:50:05 -0600 (CST)
 Received: (knupke@localhost) by babbage.csee.usf.edu (8.6.12/8.6.5) id AAA12964;
 Tue, 19 Dec 1995 00:49:51 -0500
 Date: Tue, 19 Dec 1995 00:49:50 -0500 (EST)
 From: "Paul Knupke (CS)" <knupke@babbage.csee.usf.edu>
 X-Sender: knupke@babbage

To: aprssig@tapr.org
Subject: Re: [APRSSIG:5321] Re: License Class/Gate
In-Reply-To: <199512190414.WAA00632@flood.xnet.com>
Message-ID: <Pine.SUN.3.91.951219004423.12739A-1000000@babbage>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 18 Dec 1995, Jerry wrote:

> I think that novices and tech cannot be a GATE transmitter on 30
> meters, at least not for long! *>).

This is true. Since Novice nor Tech stations have privledges on 30 meters, they can't be a gate but there is nothing that says they cannot (ie its not illegal) to uplink via a gate operator who is general or above.

It is the gate station transmitter who is legally transmitting on 30 meters. It is no different than a tech talking on a 3 band repeater, with one band being a ten meter repeater. If they are transmitting on a frequency that they have privledges, it doesn't matter that the signal is being retransmitted on another band they do not have privledges on. The transmitter at the gateway identifies itself.

Yes there may be confusion on the fact that some 00 might look up a call of someone who they see on 30 meter packet who is not licensed but further research would show a path of ...gate,gate.

If the 00 isn't APRS literate they might not understand this though.

What is the different with that or a novice connecting to a packet network on a node on 222 Mhz? Absolutely nothing.

Paul

```
=====
Paul Knupke, Jr.           / Pinellas County ARES Asst. EC
knupke@babbage.csee.usf.edu / Pinellas County Skywarn
Largo, FL USA             / Fidonet 1:3603/570
Amateur Radio Callsign KR4YL / Packet N4XQU.#TPA.FL.USA.NOAM
                          / Florida Contest Group /
=====
```

From W2HOB@aol.com Tue Dec 19 00:25:29 1995
Received: from emout06.mail.aol.com (emout06.mail.aol.com [198.81.10.43]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id AAA05238 for <aprssig@tapr.org>; Tue, 19
Dec 1995 00:25:27 -0600 (CST)
From: W2HOB@aol.com
Received: by emout06.mail.aol.com (8.6.12/8.6.12) id WAA25613 for
aprssig@tapr.org; Mon, 18 Dec 1995 22:29:24 -0500
Date: Mon, 18 Dec 1995 22:29:24 -0500
Message-ID: <951218221941_57958846@emout06.mail.aol.com>
To: aprssig@tapr.org

Subject: I Lied (7.4e & U-2000)

'Specially for Bob & Keith
But For the SIG too...

Setting the POSRate for the 5-seconds works ok if NOTHING else is fiddled with. If you don't touch the keyboard, APRS will sample the COM2: port (in my case), get the U-2000 weather and return to monitoring the frequency.

Touch the keyboard, however, as I wanted to input the snow symbol, and lockup... Comm-buffer-overflow and you have to CTRL-ALT-DEL the computer. This was running on a 286 by the way... not my 486/66 so maybe the faster CPU would not let the buffers overflow, but then maybe it would!

I can unplug the DB-25 connector on the COM2: port and it will "empty out"... sometimes, but redrawing the map is slow enough on the 286 to cause it to lock up again...

So, I guess there really is a problem after all... faster wx station output... more data to parse... hmmm!

73 de Boyd (w2hob@aol.com)

From kc5ejk@onramp.net Tue Dec 19 00:45:18 1995
Received: from mailhost.onramp.net (mailhost.onramp.net [199.1.11.3]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id AAA05760 for <aprssig@tapir.org>; Tue, 19 Dec 1995 00:45:16 -0600 (CST)
Received: from [199.1.11.104] (dal04.onramp.net [199.1.11.104]) by mailhost.onramp.net (8.6.12/8.6.5) with SMTP id AAA01919 for <aprssig@tapir.org>; Tue, 19 Dec 1995 00:45:11 -0600
Message-Id: <v02130501acfc0274c0f0@[199.1.11.128]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Tue, 19 Dec 1995 00:45:12 -0600
To: aprssig@tapir.org
From: kc5ejk@onramp.net (Robert Winingham)
Subject: Re: [APRSSIG:5294] Re: Previous call for help

There are a few strange goofy characters in your posting

>> =46low "Off"
I guess that is a Flow "Off"

>> GAW (N=D8WBU) Bemidji, Minnesota - gwelte@blueox.bji.net
and your Call (N0WBU)

Something wrong with the mailer getting HEX codes
as this was in a reply also I think it is on your end.

I was doing a cut and paste into my PK-12 from your posting.

Even a voltmeter will jump around when there is RS-232 data on the xmit pin try that.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

From S.Miller@RUS.Uni-Stuttgart.DE Tue Dec 19 01:48:43 1995
Received: from artemis.rus.uni-stuttgart.de (artemis.rus.uni-stuttgart.de [129.69.18.28]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id BAA07687 for <aprssig@tapir.org>; Tue, 19 Dec 1995 01:48:38 -0600 (CST)
Received: from intelsun.rus.uni-stuttgart.de (intelsun.rus.uni-stuttgart.de [129.69.13.50]) by artemis.rus.uni-stuttgart.de with SMTP id IAA24528 (8.6.12/IDA-1.6 for <aprssig@tapir.org>); Tue, 19 Dec 1995 08:48:08 +0100
Received: by intelsun.rus.uni-stuttgart.de (4.1/BellWue-1.1S(subsidiary)) id AA08861; Tue, 19 Dec 95 08:53:13 +0100
From: S.Miller@RUS.Uni-Stuttgart.DE (Shannon Miller)
Message-Id: <9512190753.AA08861@intelsun.rus.uni-stuttgart.de>
Subject: Re: [APRSSIG:5310] AEA PK232
To: aprssig@tapir.org
Date: Tue, 19 Dec 1995 08:53:13 +0100 (MET)
In-Reply-To: <9512182007.aa00348@safn8.saf.com> from "Penn M McClatchey" at Dec 18, 95 07:48:36 pm
X-Mailer: ELM [version 2.4 PL21]
Content-Type: text

Penn M McClatchey writes:

>
> I hope I'm not asking a stupid question. Probably am, but here
> goes. I've been using APRS for about two weeks. I put my
> registration form in the mail Saturday. Everything works great on VHF.
> On HF, everything seemed to work well on Saturday the first
> time I ran it. I was xmitting packets.
> Yesterday and today, I can get it to receive fine, but not to
> xmit. APRS tries to make the TNC xmit, but it won't. When I go
> to View screen, it looks like APRS is sending
> an error message "too many packets outstanding" to the TNC. It is
> possible that this is an AEA error message, though
> I've never seen it before. With I try to talk directly
> to the TNC in APRS using O-C-T, I can't get the TNC to give me the
> error message, so I'm thinking it is generated by APRS.

Sounds like your threshold setting is too low. Turn it up a little so the little LED next to it isn't on when the HF freq. is clear. The TNC won't transmit if that LED is on (i.e., the threshold is too low). Perhaps the knob got adjusted since the last time you ran packet (or APRS) on HF, where the noise level is usually higher than VHF/UHF.

> Now for something strange: when I go into Pactor (using different
> software but the same TNC) and send something, it prefaces my
> xmission with the APRS packets I would've expected to send under
> APRS. So APRS isn't getting the AEA to transmit its buffer,
> I guess?

The TNC can probably hold 7 or so packets (might depend on your MAXFRAME setting??). After that, if those packets can't be sent, you'll get "too many packets outstanding." But those packets will stay in your TNC's xmit buffer, and when you switch modes with the PK-232, whether it be to PacTor or CW or whatever, that buffered APRS data will go out.

Hope this helps.

--Shannon, DL6SEU

From barrettd@crpl.cedar-rapids.lib.ia.us Tue Dec 19 01:56:53 1995
Received: from CRPL.CEDAR-RAPIDS.LIB.IA.US (crpl.cedar-rapids.lib.ia.us [198.134.138.1]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id BAA07758 for <aprssig@tapr.org>; Tue, 19 Dec 1995 01:56:51 -0600 (CST)
Message-Id: <199512190756.BAA07758@sys1.tapr.org>
Received: from ppp-105.cedar-rapids.lib.ia.us by CRPL.CEDAR-RAPIDS.LIB.IA.US with SMTP;
Tue, 19 Dec 1995 1:25:59 -0600 (CST)
X-Sender: barrettd@crpl.cedar-rapids.lib.ia.us
X-Mailer: Windows Eudora Light Version 1.5.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Tue, 19 Dec 1995 01:26:42 -0600
To: aprssig@tapr.org
From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>
Subject: Re: [APRSSIG:5287] Re: Stolen callsigns

At 12:35 PM 95-12-18 -0600, you wrote:

>I kind of wrote it off as an RS-232 glitch. There's a lot of data flying
>around on that interface when HSP is running.
>

>It would be interesting to survey the folks experiencing the problem to
>determine a few facts about the hardware they are running - i.e., CPU type
>and speed, and type of UART on the serial interface. It would not surprise
>me if we see a correlation with the problem and the use of 16450 or 8250
>UART chips.

I've experienced it with a laptop that has the 16550 UART, I use the HSP cable and both the tiny-2 and the pico TNC's I don't think it's occurred with the pico; I'll be more observant there; the pico has the built in second serial port for the GPS, whereas the tiny-2 is using the HSP cable.

barrettd

David E. Barrett
barrettd@crpl.cedar-rapids.lib.ia.us

If I can't give you a good sound reason
I'll give you a reason that sounds good

From per@proact.no Tue Dec 19 02:03:16 1995
Received: from Norway.EU.net (nic.eunet.no [193.71.1.1]) by sys1.tappr.org
(8.7.2/8.7.2) with SMTP id CAA07885 for <aprssig@tappr.org>; Tue, 19 Dec 1995
02:03:08 -0600 (CST)
Received: by Norway.EU.net with UUCP id AA15856
(5.65c/IDA-1.4.4/EUnet/NO for aprssig@tappr.org); Tue, 19 Dec 1995 09:03:03 +0100
Received: from gruff by proact.no (4.1/SMI-4.1)
id AA11078; Tue, 19 Dec 95 08:57:31 +0100
Date: Tue, 19 Dec 1995 08:50:09 +0100 (MET)
From: Per Molund <per@proact.no>
To: aprssig@tappr.org
Subject: Re: [APRSSIG:5263] Re: GPS, Altitud
X-Sender: per@aktiv
In-Reply-To: <Pine.SUN.3.91.951217180119.29992B-100000@greatlakes>
Message-Id: <Pine.PCW.3.91.951219073631.6503A-100000@gruff>
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 17 Dec 1995, Bob Bruninga wrote:

>
> APR REPLY: A decent percentage of the people on this net could probably
> get together, and with less than the investment it takes to buy a new car,
> could build a CRUISE MISSILE using GPS to target any spot on the surface
> of the earth. I personally am thankful that the government is providing
> some protection for us in the form of SA.
>
> When you consider the resources and money available to the crazies in
> the middle east, the individual making the above statement is
> "misinformed".

What? A backyard cruise missile? I think someone are missing the point for
a number of reasons.

a. Someone having the technology to develop and build a cruise missile
being able to target 'any spot on surface' would not rely on a \$300
Garmin to do the navigation. They surely also would have the technology
to 'break' the code used for SA. Maybe they would not go for Navstar/GPS
at all, they could easily choose to use GLOSNAS instead.

b. As seen during the Desert Storm the terrorist weapons used was not
locally developed, but slightly modified Russian designed SCUD missiles.
This leads me to believe that even governments which spend large amounts
of money on weapons would try to buy, steal or borrow these items than
design and build them. I do not know the cost of the development of the
Tomahawk missile, but I believe this would be above the capability of an
average Middle East government.

c. Terrorist whether groups or governments are not requiring pinpoint
accuracy, they want publicity. That means that a car bomb at downtown

McDonnals are a lot more useful to them than the ability to deliver a charge at SAC's backdoor in Colorado Springs. This have been proven for a number of years in Europe (Paris, Baskerland, Germany, Northern Ireland etc.) and in the Middle East (Israel, Lebanon, Egypt etc.).

> Be thankful that we civilians get to play with these high tech toys in a
> free and open society. Which a lot of folks would like to destroy...

I am quite sure that Your government had some bigger views than high tech toys when they forced the military to make GPS available to the public. :-)

---per

```
=====
| Per Molund - Systems Engineer      | Email:  per@proact.no           |
| Norway                            | Pager:  +47 96 50 05 74        |
=====
```

From TEB@dwaf-pta.pwv.gov.za Tue Dec 19 03:22:01 1995
Received: from xwing.wcape.gov.za (xwing.wcape.gov.za [164.151.101.253]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id DAA10094 for <aprssig@tapr.org>; Tue, 19
Dec 1995 03:21:49 -0600 (CST)
Received: from dwaf-pta.pwv.gov.za (dwaf-pta.pwv.gov.za [164.147.135.249]) by
xwing.wcape.gov.za (8.6.12/8.6.12) with ESMTP id LAA04790 for <aprssig@tapr.org>;
Tue, 19 Dec 1995 11:22:16 +0200
Received: from SERVER1/SpoolDir by dwaf-pta.pwv.gov.za (Mercury 1.21);
19 Dec 95 11:23:39 +0200
Received: from SpoolDir by SERVER1 (Mercury 1.21); 19 Dec 95 11:23:26 +0200
From: "Henry Abbott" <TEB@dwaf-pta.pwv.gov.za>
Organization: Dpt Water Affairs & Forestry (PTA)
To: aprssig@tapr.org
Date: Tue, 19 Dec 1995 11:23:17 +0200
Subject: Re: [APRSSIG:5339] Re: GPS, Altitud
X-pmrc: 1
Priority: normal
X-mailer: Pegasus Mail v3.1 (R1a)
Message-ID: <2FADC01F10@dwaf-pta.pwv.gov.za>

Another stupid question! Why cannot one simply refer to the nearest point of known coordinates and height, determine the instantaneous error between the known coordinates and GPS results and correct for it? Or is the SA implementation really more complex than that?

73 de ZR6HAA

Tel. 00 27 12 299 3335
Fax. 00 27 12 323 0321

Henry Abbott -- ZR6HAA
Dept. of Water Affairs and Forestry
Postal: Water Quality Management, Private Bag X313, PRETORIA, 0001

From sparkfel@primenet.com Tue Dec 19 03:42:00 1995
Received: from mailhost1.primenet.com (mailhost1.primenet.com [198.68.32.51]) by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id DAA10449 for <aprssig@tapr.org>; Tue, 19 Dec 1995 03:41:57 -0600 (CST)
Received: from usr2.primenet.com (root@usr2.primenet.com [198.68.32.12]) by mailhost1.primenet.com (8.7.1/8.7.1) with ESMTP id CAA18920 for <aprssig@tapr.org>; Tue, 19 Dec 1995 02:41:55 -0700 (MST)
Received: from ip054.phx.primenet.com (ip054.phx.primenet.com [198.68.46.54]) by usr2.primenet.com (8.7.1/8.7.1) with SMTP id CAA29557; Tue, 19 Dec 1995 02:41:52 -0700 (MST)
Date: Tue, 19 Dec 1995 02:41:52 -0700 (MST)
Message-Id: <199512190941.CAA29557@usr2.primenet.com>
X-Sender: sparkfel@mailhost.primenet.com
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapr.org, aprssig@tapr.org
From: sparkfel@primenet.com (Mark Fellhauer)
Subject: Re: [APRSSIG:5339] Re: GPS, Altitud

At 02:16 AM 12/19/95 -0600, Per Molund wrote:

>a. Someone haveing the technology to develop and build a cruise missile
>beeing able to target 'any spot on surface' would not rely on a \$300
>Garmin to do the navigation. They surely also would have the technology
>to 'break' the code used for SA. Maybe they would not go for Navstar/GPS
>at all, they could easily choose to use GLOSNAS instead.

Could be. But, contrary to popular belief, "military" versions of GPS are available to the public, for a price. In fact, all one has to do is show a need for one and they can get one. I know the City of Phoenix uses L1/L2 GPS receivers. If they can get them, so can any organized terrorist organization. Also, it would be quite possible for a cohort to set up a local DGPS transmitter shortly before a terrorist attack, again, these are available on the open market, or easily constructed.

>

>b. As seen during the Desert Storm the terrorist weapons used was not
>locally developed, but slighthly modified russian designed SCUD missiles.
>This leads me to belive that even governments wich spends large amounts
>of money on weapons would try to buy, steal or borrow these items than
>deign and build them. I do not know the cost of the development of the
>tomahawk missile, but I belive this would be above the capability of an
>average Middle East government.

Tomahawk Cruise Missiles can be very simple, or very complex, most of that has to do with avionics. Base models can be had for about \$500,000. Many

years ago I got to tour the Teledyne CAE plant in Toledo, OH; where they make the jet engines for the cruise missile. I was amazed at how simple a cruise missile's design is. The design is hardly "state-of-the-art." I'm sure any country could duplicate the effort, and probably cheaper than the U.S. In fact, a small group of technically competent people could probably assemble a reasonable facsimile.

The most complex part is the jet turbine, but this could be replaced with a propeller, ducted fan, or ram jet. 3 axis stabilization and guidance could be done with off-the-shelf components designed for the model aircraft industry combined with a GPS unit.

In light of the fact that Matthias Rust could pilot a Cessna 172 through Soviet Airspace and land in Red Square, and some wacko (recently) could steal a plane and almost crash it into the Whitehouse, it will not be long before we see some type of flying bomb (either with a kamikaze pilot or possible GPS guidance) aimed by terrorist group(s) at some target. SA or not, it's bound to happen.

But currently it's easier to steal (or rent) a truck and pack it with explosives. I expect when it gets hard to make a ground attack, the terrosits will take to the air.

This is just my opinion, and I am in no way endorsing any terrorist attack on any target.

73,

Mark Fellhauer
KC7BXS
sparkfel@primenet.com

From ke4eer@ro.com Tue Dec 19 07:01:47 1995
Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tappr.org (8.7.2/8.7.2) with SMTP id HAA15439 for <aprssig@tappr.org>; Tue, 19 Dec 1995 07:01:44 -0600 (CST)
Received: from ts1p10.ro.com (ts1p10.ro.com [205.216.92.30]) by sh1.ro.com (8.6.9/8.6.9) with SMTP id IAA05089 for <aprssig@tappr.org>; Tue, 19 Dec 1995 08:08:39 -0600
Message-Id: <199512191408.IAA05089@sh1.ro.com>
X-Mailer: InternetWorks Mail and News 1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Tue, 19 Dec 1995 07:01:28
From: ke4eer@ro.com (William Nolle)
To: aprssig@tappr.org
Subject: Re: [APRSSIG:5319] Re: License Class/Gate

This is only true if that person has a Tech plus ticket, not just because you can talk on 2 meters.

Bill KE4EER

>Only the class of license for the frequency you are transmitting on.
>If you can talk on 2 meters, then it is fine to GATE from HF to VHF *one way*
>
>If you can talk on 30 meters, you can do it the other way, too.
>
>
>Ralph
>
>
>
>
>At 08:26 PM 12/18/95 -0600, you wrote:
>>Hi there, and happy holidays!
>>Would somebody refresh my memory if a certain class of Ham license is
>>required for a station to be a GATE?
>>
>>Thanks,
>>Barry Leonard
>>jleonard@tbcnet.com
>>N9VJQ
>>
>>
>

From schiers@ibm.net Tue Dec 19 07:08:46 1995
Received: from smtp-gw01.ny.us.ibm.net ([165.87.194.252]) by sys1.tapir.org
(8.7.2/8.7.2) with SMTP id HAA15946 for <aprssig@tapir.org>; Tue, 19 Dec 1995
07:08:44 -0600 (CST)
Received: (from uucp@localhost) by smtp-gw01.ny.us.ibm.net (8.6.9/8.6.9) id
NAA10729 for <aprssig@tapir.org>; Tue, 19 Dec 1995 13:08:41 GMT
Message-Id: <199512191308.NAA10729@smtp-gw01.ny.us.ibm.net>
Received: from slip230-66.mo.us.ibm.net(129.37.230.66) by smtp-gw01.ny.us.ibm.net
via smap (V1.3mjr)
id smaXOEDmb; Tue Dec 19 13:08:34 1995
Date: Tue, 19 Dec 95 13:07:30 EST
From: schiers@ibm.net (hasan schiers)
Reply-To: schiers@ibm.net (hasan schiers)
To: aprssig@tapir.org
X-Mailer: hasan schiers's PMMail v1.1
Subject: Re: [APRSSIG:5307] U-2000 serial pinout

On Mon, 18 Dec 1995 18:57:08 -0600 (CST) you wrote:

>Well, Peet could have just printed the info in the book instead of making
>everyone jump through the same hoops. So what's the pinout now? My guess
>is the port marked with the big H is the right port but the wires get
>changed around.
>
NO! NO! NO!...RTFM

There is a specific warning in the manual to NOT plug ANYTHING in the "H" port except an external temperature humidity sensor or DAMAGE could result.

There is a loose sheet in the upgrade kit showing what gets plugged in where on both the junction and splitter box.

As far as the pinout on the serial port itself, I have seen nothing to indicate what is what...inexcusable on Peet's part.

73,

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

From schiers@ibm.net Tue Dec 19 07:08:57 1995
Received: from smtp-gw01.ny.us.ibm.net ([165.87.194.252]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id HAA15964 for <aprssig@tapir.org>; Tue, 19 Dec 1995 07:08:55 -0600 (CST)
Received: (from uucp@localhost) by smtp-gw01.ny.us.ibm.net (8.6.9/8.6.9) id NAA27385 for <aprssig@tapir.org>; Tue, 19 Dec 1995 13:08:53 GMT
Message-Id: <199512191308.NAA27385@smtp-gw01.ny.us.ibm.net>
Received: from slip230-66.mo.us.ibm.net(129.37.230.66) by smtp-gw01.ny.us.ibm.net via smap (V1.3mjr)
id smaX0UCrx; Tue Dec 19 13:08:42 1995
Date: Tue, 19 Dec 95 12:55:00 EST
From: schiers@ibm.net (hasan schiers)
Reply-To: schiers@ibm.net (hasan schiers)
To: aprssig@tapir.org
X-Mailer: hasan schiers's PMMail v1.1
Subject: Re: [APRSSIG:5335] I Lied (7.4e & U-2000)

On Tue, 19 Dec 1995 00:26:10 -0600 (CST) you wrote:

>
>'Specially for Bob & Keith
>But For the SIG too...
>
>Setting the POSRate for the 5-seconds works ok if NOTHING else
>is fiddled with. If you don't touch the keyboard, APRS will sample
>the COM2: port (in my case), get the U-2000 weather and return
>to monitoring the frequency.
>
>Touch the keyboard, however, as I wanted to input the snow symbol,
>and lockup... Comm-buffer-overflow and you have to CTRL-ALT-DEL
>the computer. This was running on a 286 by the way... not my 486/66
>so maybe the faster CPU would not let the buffers overflow, but then
>maybe it would!
>
>I can unplug the DB-25 connector on the COM2: port and it will "empty out"...
>sometimes, but redrawing the map is slow enough on the 286 to cause it to

>lock up again...

>

>So, I guess there really is a problem after all... faster wx station

>output... more data to parse... hmmm!

>

>73 de Boyd (w2hob@aol.com)

>

My assessment is the same, increasing the sampling rate (WX update) improves things, but it is NOT a fix, and this is on a 486dx2/80 with fast pci video card. 73,

robert "hasan" schiers

Ham Radio Packet: n0an@n0an.ia.usa.noam

From ke4eer@ro.com Tue Dec 19 07:20:18 1995

Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id HAA16583 for <aprssig@tapir.org>; Tue, 19 Dec 1995 07:20:16 -0600 (CST)

Received: from ts1p10.ro.com (ts1p10.ro.com [205.216.92.30]) by sh1.ro.com (8.6.9/8.6.9) with SMTP id IAA05427 for <aprssig@tapir.org>; Tue, 19 Dec 1995 08:27:11 -0600

Message-Id: <199512191427.IAA05427@sh1.ro.com>

X-Mailer: InternetWorks Mail and News 1.1

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Date: Tue, 19 Dec 1995 07:19:54

From: ke4eer@ro.com (William Nolle)

To: aprssig@tapir.org

Subject: Re: [APRSSIG:5290] Re: APRS OVER LL BBS?

Although i agree with a lot of what your saying Jim, do we really want to stop going forward and start going backward. Or hide our head in the sand when someone makes a suggestion. Even tough some Hams don't like the idea of advancing into a new world using amateur radio, it's here and being used daily, just like Iphone, some hams don't like the idea, but let me tell you that i talk to more hams on Iphone using Internet then i do in any other mode.

And yes Jim if you don't use the frequency we are going to loose it so why don't i EVER here anybody on 220 at least in North Alabama.

KE4EER

>Then why even bother with radio? I kind of like the idea of being somewhat
>"exclusive" in that just anybody and everybody isn't a radio amateur... While
>an Internet/Iphone link up might be a novel idea, aren't we REALLY in this to
>promote technological development in radio communications? Yes, I know that we
>could start talking about the new wireless technology and that might cover it
>but I really think that if we start doing this kind of activity that sooner or
>later the FCC would say "Well, you never use those frequencies any more. That's
>why we are auctioning off the former amateur bands!"

>

>I get a little ruffled when the BBS sysops use phone lines to transfer the
>mountain of junk mail that permeates the packet network now. Of what USEFUL

>purpose is a message listing a "tower for sale, you take down and move" in
>Massachusetts being on a BBS in Australia or even Kansas??? About half of the
>bulletins that come out are just people writing bulletins with no conscientious
>effort being made to rationalize the propriety, or (dare I say) necessity, of
>taking up disk space and air time to send trivia, recipes, happy club crap,
>etc., etc., etc. (ad infinitum et nauseum), much LESS the desirability of so
>much crap....

>
>Already we have opened ourselves, unwittingly, to a potential loss of privilege
>threat with the packet mail. I say we had best mind our efforts and refrain
>from using commercially available communication methods. Why don't we develop
>the next new wave of high-tech communications????

>
>Something to think about....

>
>73 de Jim, KU0G
>

From rholbert@manny.rcinet.com Tue Dec 19 07:51:25 1995
Received: from nohar.rcinet.com (nohar.rcinet.com [157.134.207.6]) by
sys1.tapr.org (8.7.2/8.7.2) with ESMTP id HAA17493 for <aprssig@tapr.org>; Tue, 19
Dec 1995 07:51:20 -0600 (CST)
Received: (from smap@localhost) by nohar.rcinet.com (8.7.1/8.6.12) id IAA13431 for
<aprssig@tapr.org>; Tue, 19 Dec 1995 08:51:15 -0500 (EST)
Received: from manny.rcinet.com(199.18.212.6) by nohar.rcinet.com via smap (V1.3)
id sma013429; Tue Dec 19 08:51:02 1995
Received: (from smap@localhost) by manny.rcinet.com (8.7.1/8.6.12) id IAA11899 for
<aprssig@tapr.org>; Tue, 19 Dec 1995 08:51:02 -0500 (EST)
Message-Id: <199512191351.IAA11899@manny.rcinet.com>
Received: from rcinet-245.rcinet.com(199.18.212.245) by manny.rcinet.com via smap
(V1.3)
id sma011524; Tue Dec 19 08:50:41 1995
To: aprssig@tapr.org
From: "Richard L. Holbert" <rholbert@manny.rcinet.com>
Subject: RE: [APRSSIG:5301] RE: APRS Over LL BBS?
Date: Tue, 19 Dec 1995 08:50:39
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Yes, but let's think about it. The reason we are converting the Digital
Data to audio is because the media (radio) is already set up to use audio.
In the case of the internet, it is already set up to use digital data. We
would use much less band-width and be more efficient if we sent APRS
position reports as text strings instead of digitized audio over the
internet.

Hope this helps.

On Mon, 18 Dec 1995 17:00:16 -0600 (CST),
aprssig@tapr.org wrote...
>Well Keith i wasn't thinking of sending the data via serial port, but
>rather via

>audio via soundblaster and Iphone. Maybe i'm still wrong about this but
 >arent
 >we doing the same thing now. that is receiving and sending packet via the
 >Radio's audio?. (Those in the dark would like to know hi).
 >
 >Bill KE4EER
 >-----
 >>> Is it possible to receive APRS data over a telephone modem via a
 >>> land-line bbs with a tnc door? Has anyone tried this?
 >>>
 >>
 >>
 >>Would this be possible? Sure..
 >>
 >>Will it work now??? NO...
 >>
 >>
 >>
 >>The problem is that the data that gets sent via the SERIAL PORT is only
 >>the DATA part of the packet, i.e.
 >>
 >> @181200/4012.34N/07412.34W Metc etc etc
 >>
 >>The part that the program expects to see is:
 >>
 >> WU2Z*>APRS:<the same as above)
 >>
 >>
 >>The call sign and TO field (APRS) get added by the TNC, and this would
 >>not be present if you simply hooked the serial ports to a pair of
 modems..
 >>
 >>
 >>For it to be possible, we (Bob and I) would have to write a NEW mode, and
 >it
 >>probably wouldn't be worth it..
 >>
 >>You could however, dump P-Lists, and send them over a modem, and load
 them
 >in
 >>at the other end..
 >>
 >>
 >>Keith
 >>
 >>
 >>
 >>Keith Sproul Ham Radio: WU2Z
 >>Student Housing Network Coordinator ksproul@noc.rutgers.edu
 >>Rutgers University Computing Services 908 445-3695 Work 908 445-2968
 >Fax
 >>http://www-ns.rutgers.edu/~ksproul/ 908 821-4828 Home
 >>

>
>
>

Rick Holbert

Ham: KB8DNR
Work: rholbert@arinc.com
Home: rholbert@rcinet.com
WWW: <http://www.dma.org/~holbert>

From dwetzel@acs.uswest.com Tue Dec 19 07:51:56 1995
Received: from uswat.advtech.uswest.com (uswat.advtech.uswest.com [130.13.16.1])
by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id HAA17547 for <aprssig@tapir.org>; Tue,
19 Dec 1995 07:51:54 -0600 (CST)
From: dwetzel@acs.uswest.com
Received: from easthub ([151.117.26.86]) by uswat.advtech.uswest.com (8.7.1/8.7.1)
with SMTP id GAA01497 for <aprssig@tapir.org>; Tue, 19 Dec 1995 06:51:50 -0700
(MST)
Received: by easthub.mnet.uswest.com (M-Net Hub.950111)
Received: from acmspgw1.mnet.uswest.com by acs.uswest.com (5.x/SMI-SVR4)
id AA25080; Tue, 19 Dec 1995 07:51:47 -0600
Received: from ccMail by acmspgw1.mnet.uswest.com
(IMA Internet Exchange 1.04b beta) id 0d6b9bc0; Tue, 19 Dec 95 07:10:20 -0600
Mime-Version: 1.0
Date: Tue, 19 Dec 1995 06:54:38 -0600
Message-Id: <0d6b9bc0@acmspgw1.mnet.uswest.com>
Subject: Re: [APRSSIG:5296] Re: Stolen callsigns
To: aprssig@tapir.org
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Description: cc:Mail note part

I have the identical configuration and see the Wi7XXX and cKC7C0 both under Win
3.1 and under straight DOS. Doesn't seem to matter how big the P-list is (I've
seen it when first bringing APRS up with just me on the P-list).

Doug

KC7C0

Subject: [APRSSIG:5296] Re: Stolen callsigns
From: aprssig@tapir.org at Internet-Mail
Date: 12/18/95 16:04

Hate to be the bearer of bad news, but it has happened to me on at least one
occasion and I do not have a wx station.

I'm running 7.4e, and an AEA 232 (old(no mailbox etc)) multitasking from
Windows.

I think I had switched back to Windows (3.11), done some things and switched back to APRS and there I was, someone else!!! I had attributed it to the large P-list (about 5 pages) but that was a guess.

I also get some other Call sign changes that show up as Wi4XXX with the lower case i instead of the correct call.

In either case, I can hook my or the other call, delete it and under it is the correct Call.

For whatever this is worth!

Bud
wb4ltf@aol.com

From bruninga@nadm.navy.mil Tue Dec 19 08:13:12 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id IAA18201 for <aprssig@tapr.org>; Tue,
19 Dec 1995 08:13:10 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
JAA20641; Tue, 19 Dec 1995 09:13:36 -0500
Date: Tue, 19 Dec 1995 09:13:35 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5310] AEA PK232
In-Reply-To: <9512182007.aa00348@safn8.saf.com>
Message-ID: <Pine.SUN.3.91.951219091128.20530A-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 18 Dec 1995, Penn M McClatchey wrote:

> Yesterday and today, I can get it to receive fine, but not to
> xmit. APRS tries to make the TNC xmit, but it won't. When I go
> to View screen, it looks like APRS is sending
> an error message "too many packets outstanding" to the TNC. It is

APR REPLY: That is a TNC error message. Your TNC transmit buffer is full and your TNC is NOT transmitting any packets! Usually, it means you are in the wrong MODEM mode, and the CARRIER detect is PREVENTING the TNC from ever transmitting due to the constant noise on HF...

|DE WB4APR in Annapolis MD.|

From dwetzel@acs.uswest.com Tue Dec 19 08:17:26 1995
Received: from uswat.advttech.uswest.com (uswat.advttech.uswest.com [130.13.16.1])
by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id IAA18262 for <aprssig@tapr.org>; Tue,
19 Dec 1995 08:17:24 -0600 (CST)
From: dwetzel@acs.uswest.com

Received: from easthub ([151.117.26.86]) by uswat.advtech.uswest.com (8.7.1/8.7.1) with SMTP id HAA02381 for <aprssig@tapr.org>; Tue, 19 Dec 1995 07:17:21 -0700 (MST)

Received: by easthub.mnet.uswest.com (M-Net Hub.950111)

Received: from acmspgw1.mnet.uswest.com by acs.uswest.com (5.x/SMI-SVR4) id AA25399; Tue, 19 Dec 1995 08:16:54 -0600

Received: from ccMail by acmspgw1.mnet.uswest.com

(IMA Internet Exchange 1.04b beta) id 0d6bf9b0; Tue, 19 Dec 95 07:35:23 -0600

Mime-Version: 1.0

Date: Tue, 19 Dec 1995 07:18:43 -0600

Message-Id: <0d6bf9b0@acmspgw1.mnet.uswest.com>

Subject: Re: [APRSSIG:5306] More LL BBS stuff

To: aprssig@tapr.org

Content-Type: text/plain; charset=US-ASCII

Content-Transfer-Encoding: 7bit

Content-Description: cc:Mail note part

APRS and MacAPRS read AX25 UI data that has been stripped of the packet headers by the tnc itself. JNOS needs to see the AX25 headers, as well as the encapsulated TCP/IP headers in the data, so it must operate with the TNC in KISS mode. Neither APRS nor MacAPRS currently incorporate drivers for KISS - it's a non-trivial task to add them.

In addition, JNOS does not have an adequate method of setting UNPROTO digipeat paths without also affecting TCP/IP routing, and although makes an adequate TCP/IP router, is not up to the task of "digipeating" APRS data into the JNOS Internet world.

The same issues apply to NOS variants such as TNOS, G1EMM, NET/Mac, etc. It would probably be easier for the NOS developers to accommodate APRS than the other way around, as the NOS apps do support AX25 connections and UI frame processing.

Doug
KC7CO
dwetzel@acs.uswest.com

Subject: [APRSSIG:5306] More LL BBS stuff
From: aprssig@tapr.org at Internet-Mail
Date: 12/18/95 18:32

Anybody here use JNOS and DOS? I THINK we can use that system.

Anybody an expert? I have a running copy and our Club uses it on a BBS. (w8dc.ampr.org) connected to a Gateway. (Hamgate.gvsu.edu)

I have been offered a port for this use. We currently have a Wormhole to Ann Arbor Mi AND Tuson, AZ

Wonder if anybody wants to try this???

I am game...

Samuel T. Nabkey - WJ8T

{snabkey@wingsbbs.com}

From bruninga@nadm.navy.mil Tue Dec 19 08:44:14 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id IAA19371 for <aprssig@tapir.org>; Tue,
19 Dec 1995 08:44:12 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
JAA21341; Tue, 19 Dec 1995 09:44:38 -0500
Date: Tue, 19 Dec 1995 09:44:37 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:5299] RE: APRS Over LL BBS?
In-Reply-To: <199512182214.RAA24366@manny.rcinet.com>
Message-ID: <Pine.SUN.3.91.951219094215.20530D-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 18 Dec 1995, Richard L. Holbert wrote:

> Ah, but, what I want to do is to use a machine with two serial ports. Com1
> hooked to the TNC and Com2 hooked to the modem. The computer just repeats
> what it hears on the TNC over the modem. The computer with the TNC doesn't
> even need to run APRS, but the computer on the other side of the telephone
> line would be running APRS without a TNC.

APR REPLY: Yes, but then you have to sit and monitor paying long
distance rates for 15 minutes or more before you see the whole picture...
My idea lets each person get the whole update in 10 seconds.

From bruninga@nadm.navy.mil Tue Dec 19 08:47:33 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id IAA19417 for <aprssig@tapir.org>; Tue,
19 Dec 1995 08:47:30 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
JAA21399; Tue, 19 Dec 1995 09:47:56 -0500
Date: Tue, 19 Dec 1995 09:47:56 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:5324] Re: Overflow with U-2000
In-Reply-To: <199512190249.CAA09410@smtp-gw01.ny.us.ibm.net>
Message-ID: <Pine.SUN.3.91.951219094609.20530E-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 18 Dec 1995, hasan schiers wrote:

> By the way, Bob, is anyone besides me telling you about the U-2000

> overflow problem or are you and I the only ones playing with it at

APR REPLY: I have now 2 reports. Yours and N4QEA in Tennessee..
My (2000) of course works fine.... hi hi I am holding off on releasing
APRS75 until we figure out what is going on....

|DE WB4APR in Annapolis MD.|

From bruninga@nadm.navy.mil Tue Dec 19 08:58:31 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id IAA20095 for <aprssig@tapir.org>; Tue,
19 Dec 1995 08:58:28 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
JAA21568; Tue, 19 Dec 1995 09:58:53 -0500
Date: Tue, 19 Dec 1995 09:58:53 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapir.org
Subject: APRS solution for COM ports
In-Reply-To: <199512190512.VAA21972@main.gv.net>
Message-ID: <Pine.SUN.3.91.951219094818.20530F-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 18 Dec 1995, Peter Short wrote:

> >Yes APRS does work on com3 and com 4.....

APR REPLY: Yes, but ONLY if you use the same interrupts. (such a waste)

RULE #1: A HAM will NEVER have enough COMM PORTS

SOLUTION: On the side of my PC, I mounted a small bracket that holds two
DB-9 male serial connectors. These are connected to COM1 and COM2 on the
back of my PC. On my desk top in front of these two connectors are
laying a DOZEN or more serial data cables that connect to EVERYTHING in
my cozy little world. I Plug in whatever I need, whenever I need it.

I have never looked at a COM card, I have NEVER had to move interrupts
and have my PC die for days while I re-configure for each new aquisition.
I never have used SETUP on my PC. It is as STOCK as the day I opened the
box. I never have COMPORT conflicts, and I can even PLUG in a MOUSE if I
have to... I ALWAYS have two dedicated COM ports available for EVERY
application.

Total investment is about \$0.79 per connector and about the same for the
hoods...

|DE WB4APR in Annapolis MD.|

From bruninga@nadm.navy.mil Tue Dec 19 09:03:47 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id JAA20495 for <aprssig@tapir.org>; Tue,
19 Dec 1995 09:03:45 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
KAA21637; Tue, 19 Dec 1995 10:04:11 -0500
Date: Tue, 19 Dec 1995 10:04:10 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapir.org
Subject: Another U-2000 test?
In-Reply-To: <199512190045.AAA09425@smtp-gw01.ny.us.ibm.net>
Message-ID: <Pine.SUN.3.91.951219100126.20530H-1000000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 18 Dec 1995, hasan schiers wrote:

> I have tried to set it below 5, but it won't go...and still getting crashes
> every few minutes while set at 5. Time to shut it off until the code gets
> fixed.

APR REPLY: OK, I still cannot reproduce the problem on my 486 33. Can those
of you with U-2000's COLD BOOT to DOS without ANYTHING else. Then confirm
if you still have the problem?

|DE WB4APR in Annapolis MD.|

From gerry@cs.tamu.edu Tue Dec 19 09:31:27 1995
Received: from cs.tamu.edu (clavin.cs.tamu.edu [128.194.130.106]) by sys1.tapir.org
(8.7.2/8.7.2) with SMTP id JAA21418 for <aprssig@tapir.org>; Tue, 19 Dec 1995
09:31:24 -0600 (CST)
Received: from solar.cs.tamu.edu (2961@solar.cs.tamu.edu [128.194.132.1]) by
cs.tamu.edu (8.6.10/8.6.4) with ESMTP id JAA08585 for <aprssig@tapir.org>; Tue, 19
Dec 1995 09:30:44 -0600
From: Gerald J Creager <gerry@cs.tamu.edu>
Received: (gerry@localhost) by solar.cs.tamu.edu (8.6.10/8.6.4) id JAA09979 for
aprssig@tapir.org; Tue, 19 Dec 1995 09:30:32 -0600
Message-Id: <199512191530.JAA09979@solar.cs.tamu.edu>
Subject: Re: [APRSSIG:5340] Re: GPS, Altitud
To: aprssig@tapir.org
Date: Tue, 19 Dec 1995 09:30:32 -0600 (CST)
In-Reply-To: <2FADC01F10@dwaf-pta.pwv.gov.za> from "Henry Abbott" at Dec 19, 95
03:36:54 am
X-Mailer: ELM [version 2.4 PL24]
Content-Type: text

Henry Abbott sez:

>
> Another stupid question! Why cannot one simply refer to the nearest
> point of known coordinates and height, determine the

> instantaneous error between the known coordinates and GPS results and
> correct for it? Or is the SA implementation really more complex
> than that?

In some ways, this is exactly what one does with differential GPS. You put a receiver on a set of known coordinates and calculate the pseudorange (apparent range) and pseudorange rate errors for each of the PRNs you're receiving. You use these data to correct each set of matrix solutions on an epoch by epoch basis, either in real time or after the fact.

An older method of DPGS correction simply places a receiver on a known point and notes the error in Lat/Lon/Hgt and applies the appropriate correction to the solution derived by the roving receiver. The inherent problem here is that the reference site and the rover may not be using exactly the same satellites, nor the same algorithm for solution, thus making the "correction" of questionable value.

In my Cows In Space project, I am using a set of receivers that are identical and all have been set to utilize the same satellite selection criteria. They are all located within a couple of kilometers of each other, thus increasing the probability that they are all seeing the same satellites. I am transmitting DGPS data to them and getting onboard corrections in real time, to the entire herd of 16 animals. 2 stations at sub-cm precision surveyed points are also established, using the same criteria, and receiving the DGPS data. The apparent error from the 2 fixed sites is collected and averaged, and the error from their known fixed locations is applied as a post-processing solution to improve the accuracy of my cow location.

73, gerry N5JXS
gerry@cs.tamu.edu

From W2HOB@aol.com Tue Dec 19 09:31:39 1995
Received: from mail04.mail.aol.com (mail04.mail.aol.com [152.163.172.53]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id JAA21435 for <aprssig@tapr.org>; Tue, 19 Dec 1995 09:31:36 -0600 (CST)
From: W2HOB@aol.com
Received: by mail04.mail.aol.com (8.6.12/8.6.12) id KAA15887 for aprssig@tapr.org; Tue, 19 Dec 1995 10:31:04 -0500
Date: Tue, 19 Dec 1995 10:31:04 -0500
Message-ID: <951219103103_75871020@mail04.mail.aol.com>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5305] GPS-45 Auto Shut Off

For the station that noticed his Garmin GPS-45 shutting off after a time period... might you be in the POWER SAVER mode? Check your booklet to double check... it is supposed to do that to save your batteries but can be toggled not to

There is also a time out period for the display backlite... this is set from the last page of the display... read the book... I forget which page it's on and am in a hurray to get out of the door!!!

Have fun es 73 de Boyd (w2hob@aol.com)

From bruninga@nadm.navy.mil Tue Dec 19 09:35:53 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id JAA21766 for <aprssig@tapir.org>; Tue,
19 Dec 1995 09:35:50 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
KAA22437; Tue, 19 Dec 1995 10:36:15 -0500
Date: Tue, 19 Dec 1995 10:36:13 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapir.org
Subject: Cheap Differential
In-Reply-To: <2FADC01F10@dwaf-pta.pwv.gov.za>
Message-ID: <Pine.SUN.3.91.951219102325.20530L-1000000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 19 Dec 1995, Henry Abbott wrote:

> Another stupid question! Why cannot one simply refer to the nearest
> point of known coordinates and height, determine the
> instantaneous error between the known coordinates and GPS results and
> correct for it?

APR REPLY: That is exactly what differential correction is. The
differential engine uses that data to calculate the apparent errors of
each of the satellites and then BROADCASTS this list of errors in a
format called RTCM-104. Most GPS receivers will accept that serial data
stream and use the data to IMPROVE their position SIGNIFICANTLY! But
these Differential correction engines cost THOUSANDS of dollars and
require a separate serial data link to the MOBILE.

CHEAP SUBSTITUTE: If you have TWO identical GPS units (using the same
software algorithms), and the antennas see the same satellites, then
they SHOULD usually give the same posit. Hook one to your BASE STATION
APRS and the other in your mobile. Now, since the base station KNOWS
its exact posit, it simply calculates the offset and subtracts that from
the mobile's posit on every packet. The mobile is therefore plotted
to the same accuracy that you know where YOUR BASE station is.

- * YOU can figure out exactly where your basestation is by simply
averaging your GPS posit over several hours(or days)
- * This only works if you are using the same model GPS for the mobile
and base...
- * It only works if the units are using the SAME SATELLITES

THIS MODE IS CALLED PSEUDO DIFFERENTIAL and has been in the APRS version
sold via PacComm for commercial applications for over a year...

|DE WB4APR in Annapolis MD.|

From z002594b@bcfreenet.seflin.lib.fl.us Tue Dec 19 09:39:07 1995
Received: from bcfreenet.seflin.lib.fl.us (bcfreenet.seflin.lib.fl.us
[199.227.192.20]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id JAA21799 for
<aprssig@tapir.org>; Tue, 19 Dec 1995 09:39:03 -0600 (CST)
Received: (from z002594b@localhost) by bcfreenet.seflin.lib.fl.us (8.6.12/8.6.12)
id KAA28019; Tue, 19 Dec 1995 10:27:30 -0500
Date: Tue, 19 Dec 1995 10:27:29 -0500 (EST)
From: William Manley <z002594b@bcfreenet.seflin.lib.fl.us>
Subject: Re: [APRSSIG:5296] Re: Stolen callsigns
To: aprssig@tapir.org
cc: aprssig@tapir.org
In-Reply-To: <951218165304_93703473@mail02.mail.aol.com>
Message-ID: <Pine.3.89.9512191011.C17079-01000000@bcfreenet.seflin.lib.fl.us>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 18 Dec 1995 WB4LTF@aol.com wrote:

> I also get some other Call sign changes that show up as Wi4XXX with the lower
> case i instead of the correct call.

I've seen this problem running both from DOS and Windows 3.1. I'm
running APRS 7.4c and have seen it back to 7.4 (perhaps earlier).

In all cases the i is accompanied with the grave accent mark.

I've never seen the callsign replacement problem.

William Manley
z002594b@bcfreenet.seflin.lib.fl.us
<http://ourworld.compuserve.com/homepages/bmanley>

From gerry@cs.tamu.edu Tue Dec 19 09:40:11 1995
Received: from cs.tamu.edu (clavin.cs.tamu.edu [128.194.130.106]) by sys1.tapir.org
(8.7.2/8.7.2) with SMTP id JAA21819 for <aprssig@tapir.org>; Tue, 19 Dec 1995
09:40:01 -0600 (CST)
Received: from solar.cs.tamu.edu (2961@solar.cs.tamu.edu [128.194.132.1]) by
cs.tamu.edu (8.6.10/8.6.4) with ESMTP id JAA08768 for <aprssig@tapir.org>; Tue, 19
Dec 1995 09:39:26 -0600
From: Gerald J Creager <gerry@cs.tamu.edu>
Received: (gerry@localhost) by solar.cs.tamu.edu (8.6.10/8.6.4) id JAA10125 for
aprssig@tapir.org; Tue, 19 Dec 1995 09:39:16 -0600
Message-Id: <199512191539.JAA10125@solar.cs.tamu.edu>
Subject: Re: [APRSSIG:5349] Re: More LL BBS stuff
To: aprssig@tapir.org
Date: Tue, 19 Dec 1995 09:39:15 -0600 (CST)
In-Reply-To: <0d6bf9b0@acmspgw1.mnet.uswest.com> from "dwetzel@acs.uswest.com" at
Dec 19, 95 08:30:09 am
X-Mailer: ELM [version 2.4 PL24]
Content-Type: text

dwetzel@acs.uswest.com sez:

>

>
> APRS and MacAPRS read AX25 UI data that has been stripped of the packet headers
> by the tnc itself. JNOS needs to see the AX25 headers, as well as the
> encapsulated TCP/IP headers in the data, so it must operate with the TNC in KISS
> mode. Neither APRS nor MacAPRS currently incorporate drivers for KISS - it's a
> non-trivial task to add them.
>
> In addition, JNOS does not have an adequate method of setting UNPROTO digipeat
> paths without also affecting TCP/IP routing, and although makes an adequate TCP/
> IP router, is not up to the task of "digipeating" APRS data into the JNOS
> Internet world.
>
> The same issues apply to NOS variants such as TNOS, G1EMM, NET/Mac, etc. It
> would probably be easier for the NOS developers to accommodate APRS than the
> other way around, as the NOS apps do support AX25 connections and UI frame
> processing.

So... we bloat xNOS a little more with a couple of drivers... add an APRS
digipath, attach the GPS to the computer and go on? It's do-able, but I don't
have time to do it over the next couple of months, or maybe years!

Actually, writing an xNIX/socket (or streams) implementation of APRS shouldn't
be too difficult save the graphics, and that could be an impetus for an X
application. Hmmm....

gerry

--

| | | |
|-------------------|-------|--------------------------------------|
| Gerry Creager | N5JXS | * SAREX Co-Investigator |
| gerry@cs.tamu.edu | | * A little radio that lets kids talk |
| | | * to astronauts, and smile |

From W2HOB@aol.com Tue Dec 19 09:45:52 1995
Received: from emout06.mail.aol.com (emout06.mail.aol.com [198.81.10.43]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id JAA21975 for <aprssig@tapr.org>; Tue, 19
Dec 1995 09:45:49 -0600 (CST)
From: W2HOB@aol.com
Received: by emout06.mail.aol.com (8.6.12/8.6.12) id KAA12725 for
aprssig@tapr.org; Tue, 19 Dec 1995 10:45:17 -0500
Date: Tue, 19 Dec 1995 10:45:17 -0500
Message-ID: <951219104515_58305008@emout06.mail.aol.com>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5351] Re: Overflow with U-2000

Bob, WB4APR...

One thing I forgot to mention about the Comm-buffer-overflow problem &
that is the "best" mode, or the mode that causes the least problems here
is the DATA LOGGING MODE. The system ran all night without a
glitch using a sampling/update rate of 5-seconds. But as soon as I
used the keyboard to look at the P-Page or check the B-Page for any
new bulletins, it locked up... it also locks up while drawing the map...

also locks up while doing ANYTHING that takes time away from getting data from the weather station (U-2000)...

Hope this additional tidbit helps Bob.
It's all white here this morning with more on the way.
Geez, I wish I was back in Houston!
73 de Boyd (w2hob@aol.com)

From dbb4@P07.RV.unisys.com Tue Dec 19 09:50:17 1995
Received: from bbmail1.unisys.com (bbmail1.unisys.com [192.63.200.5]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id JAA22329 for <aprssig@tapir.org>; Tue, 19 Dec 1995 09:50:15 -0600 (CST)
Received: from rsvl.unisys.com (rsvl_po.rsvl.unisys.com [192.61.220.100]) by bbmail1.unisys.com (8.6.12/8.6.12) with SMTP id PAA14885 for <aprssig@tapir.org>; Tue, 19 Dec 1995 15:49:37 GMT
Received: from rsvl_gw.rsvl.unisys.com (po4a) by rsvl.unisys.com (4.1/SMI-4.1) id AA01364; Tue, 19 Dec 95 09:46:33 CST
Received: by rsvl_gw.rsvl.unisys.com with Microsoft Mail id <30D6DF45@rsvl_gw.rsvl.unisys.com>; Tue, 19 Dec 95 09:50:29 CST
From: "Baker, Donn B RV" <dbb4@P07.RV.unisys.com>
To: aprs-submit <aprssig@tapir.org>
Subject: U-2000
Date: Tue, 19 Dec 95 09:49:00 CST
Message-Id: <30D6DF45@rsvl_gw.rsvl.unisys.com>
Encoding: 18 TEXT
X-Mailer: Microsoft Mail V3.0

I've been following the problem reports re: overflow w/U-2000. I *just* ordered my U-2000 (Tuesday moring) and so have an interest.

One comment, if I may.... The brochure for the U-2000 talks about the four mode I/O port. Is there a difference in the data rate between "Data logging mode," (i.e., about once per second), and the "Complete record mode," (i.e., once per second, but more data) ? What mode is everybody using, both Bob, and those having trouble ? Could it be as simple as the "wrong" mode ?

Is anybody using a U-2000 in "Packet," or "Modem" mode ? I plan on using it in Packet mode, w/AEA PK-12 TNC and radio, NO computer. Anybody tried this yet ? Problems?

Thanks.
73 de Donn
WA2VOI/0
EN35ja

From rholbert@manny.rcinet.com Tue Dec 19 09:53:05 1995
Received: from nohar.rcinet.com (nohar.rcinet.com [157.134.207.6]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id JAA22367 for <aprssig@tapir.org>; Tue, 19 Dec 1995 09:53:00 -0600 (CST)
Received: (from smap@localhost) by nohar.rcinet.com (8.7.1/8.6.12) id KAA18604 for <aprssig@tapir.org>; Tue, 19 Dec 1995 10:52:57 -0500 (EST)
Received: from manny.rcinet.com(199.18.212.6) by nohar.rcinet.com via smap (V1.3)

id sma018600; Tue Dec 19 10:52:38 1995
Received: (from smap@localhost) by manny.rcinet.com (8.7.1/8.6.12) id KAA29466 for
<aprssig@tapr.org>; Tue, 19 Dec 1995 10:52:37 -0500 (EST)
Message-Id: <199512191552.KAA29466@manny.rcinet.com>
Received: from rcinet-225.rcinet.com(199.18.212.225) by manny.rcinet.com via smap
(V1.3)
id sma029229; Tue Dec 19 10:52:14 1995
To: aprssig@tapr.org
From: "Richard L. Holbert" <rholbert@manny.rcinet.com>
Subject: RE: [APRSSIG:5350] RE: APRS Over LL BBS?
Date: Tue, 19 Dec 1995 10:52:12
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Both ideas have merit.

I wasn't thinking of using the system for long distance. My idea was to be able to display APRS position reports from mobile stations in near real-time and demonstrate APRS in RF hostile environments where it would be much easier to just hook a lap-top computer to a telephone and have it access a tnc located in an RF friendly environment, like our building on top of a large hill. The idea is to expose APRS to people who may not currently own a tnc, but who have access to a computer and a telephone modem.

The easiest solution provied by the SIG so far is to use a null-modem cable to hook the tnc directly to the modem. Of course, I think I would disable traffic from the modem going out over the tnc without some sort of password protection, etc.

Thanks for the advice.

On Tue, 19 Dec 1995 08:48:18 -0600 (CST),
aprssig@tapr.org wrote...
>On Mon, 18 Dec 1995, Richard L. Holbert wrote:
>
>> Ah, but, what I want to do is to use a machine with two serial ports.
>Com1
>> hooked to the TNC and Com2 hooked to the modem. The computer just
>repeats
>> what it hears on the TNC over the modem. The computer with the TNC
>doesn't
>> even need to run APRS, but the computer on the other side of the
>telephone
>> line would be running APRS without a TNC.
>
>APR REPLY: Yes, but then you have to sit and monitor paying long
>distnace rates for 15 minutes or more before you see the whole picture...
>My idea lets each person get the whole update in 10 seconds.

>
>
>

Rick Holbert

Ham: KB8DNR
Work: rholbert@arinc.com
Home: rholbert@rcinet.com
WWW: <http://www.dma.org/~holbert>

From dbarrow@omnifest.uwm.edu Tue Dec 19 09:58:29 1995
Received: from uwm.edu (uwm.edu [129.89.6.2]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id JAA22438 for <aprssig@tapir.org>; Tue, 19 Dec 1995 09:58:27 -0600 (CST)
Received: from omnifest.uwm.edu (omnifest.uwm.edu [129.89.70.58]) by uwm.edu (8.7.1/8.6.9) with SMTP id JAA23186 for <aprssig@tapir.org>; Tue, 19 Dec 1995 09:58:24 -0600 (CST)
Received: by omnifest.uwm.edu; (5.65/1.1.8.2/17Sep94-0940PM) id AA16898; Tue, 19 Dec 1995 09:58:23 -0600
Date: Tue, 19 Dec 1995 09:58:23 -0600
From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>
Message-Id: <9512191558.AA16898@omnifest.uwm.edu>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:5263] Re: GPS, Altitud

Bob,

I said,:

> Re: induced error
> Personally I think this induced error is "for the birds". Any
> need that might have existed is now gone. Maybe I'll just go to
>

Thanks for explaining the result.

CUL & 73 de Dave

=====
David W. Barrow III * Amateur Radio:N9UNR * Internet:dbarrow@omnifest.uwm.edu
U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin 53095-9603
Ma Bell:(414) 375-2667 * Amateur Packet:N9UNR@N9PBY.EN63BI.WI.USA.NOAM
Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham
=====

From bruninga@nadm.navy.mil Tue Dec 19 10:09:02 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id KAA23065 for <aprssig@tapir.org>; Tue, 19 Dec 1995 10:08:59 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id KAA22138; Tue, 19 Dec 1995 10:22:04 -0500
Date: Tue, 19 Dec 1995 10:22:02 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: Scott Miller <scottm@sierra.net>

cc: aprssig@tapr.org
Subject: Re: trouble with 2 port pico w/internal GPS
In-Reply-To: <199512190856.AA24420@diamond.sierra.net>
Message-ID: <Pine.SUN.3.91.951219101318.20530K-1000000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

This person has a PICO and INTERNAL GPS. He was being seen by EVERYONE monitoring the channel, but he NEVER saw himself on the map.

APR REPLY:

If that is correct, then your PICO is transmitting its position to everyone over the AIR, but it is sending nothing to the APRS. And since APRS ignores all of its OWN packets, it will never update itself off the air.

The PICO (without ELOC and the new ^E mode) was designed for STAND-ALONE applications. (and it sounds like it is doing that job admirably)

WORKAROUND FIX: Set the alt-SETUP-MODES-MASTER command. This was designed for letting several PC's share a single TNC such as in a COMM center. In this arrangement, all of the PC's use the same CALLSIGN, so they must also look for packets from the same callssign to see what the other operators on their TNC are doing. MASTER mode will tell APRS to ACCEPT its OWN packets off the air.

This will let your mobile PC see itself just like everyone else, ASSUMING YUR POSIT WAS DIGIPEATED!

Best thing it to upgrade to the new PICO.

You noticed that it did work the one time you changed the TNC call to something different than what APRS thought it was...

|DE WB4APR in Annapolis MD.|

From hammock@tis.telos.com Tue Dec 19 10:09:28 1995
Received: from tis.telos.com (tis.telos.com [198.116.7.53]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id KAA23108 for <aprssig@tapr.org>; Tue, 19 Dec 1995 10:09:24 -0600 (CST)
Received: (hammock@localhost) by tis.telos.com (8.6.12/8.6.4) id LAA12597; Tue, 19 Dec 1995 11:11:14 -0500
Date: Tue, 19 Dec 1995 11:11:06 -0500 (EST)
From: Randy Hammock <hammock@tis.telos.com>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5274] Hookup's
In-Reply-To: <199512180617.AAA11435@sh1.ro.com>
Message-ID: <Pine.SOL.3.91.951219110433.11729A-1000000@zentropa>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 17 Dec 1995, William Nolle wrote:

> You know it would be just great if somebody that's well versed on the subject
 > of hooking up WX,GPS,TNC;s etc would come up with a list on how to do's.
 > I see so many messages how do you hook this up and how do you hook that
 > up.

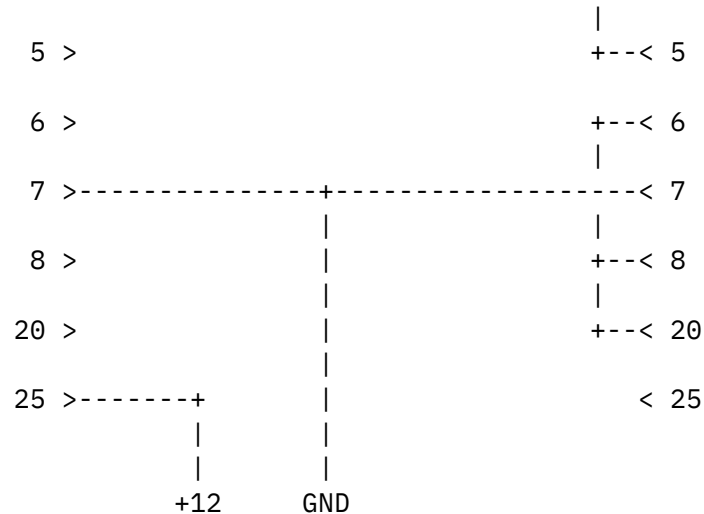
Here is my solution for connecting a Garmin GPS-45 to a KPC-3 or to a PC.

The following is a description of the connector wiring I use for the Garmin GPS-45 power/data cable to a DB-25M connector. This connection allows connecting a Garmin GPS to a KPC-3 for standalone tracker operation. Note the connections between the DB-25M pins 4 and 5, and 6, 8 and 20. This will dummy any flow-control signals to the device that the cable is plugged into. The KPC-3 was configured to send power out the DB-25F connector (KPC-3 manual Page 96; "DB-25 Wiring Options: Applying Power through the DB-25 connector").

| Garmin GPS-45
Power/Data Cable | DB-25M |
|-----------------------------------|---------|
| Brown ----- | > 2 |
| White ----- | > 3 |
| | +--> 4 |
| | |
| | +--> 5 |
| | +--> 6 |
| | |
| Black ----- | > 7 |
| | |
| | +--> 8 |
| | |
| | +--> 20 |
| 1/4 Amp Fuse | |
| Red ----- ~ ----- | > 25 |

The following is a description of the adapter cable that is used to connect a Garmin GPS-45 to an IBM PC. This assumes the power data cable for the Garmin has been wired as described above. Basically, this adapter is just a NULL-MODEM that has had the power line attachments made to it. The cable above can be plugged into the adapter below, allowing external power to be supplied to the GPS-45, while using a PC to upload/download the GPS unit.

| GPS-45
DB-25F | COMPUTER
DB-25F |
|------------------|--------------------|
| 2 >----- | < 3 |
| 3 >----- | < 2 |
| 4 > | +--< 4 |



--

| | | |
|---------------------------------------|--|-------------------------|
| Randy Hammock KC6HUR | | Randy.Hammock@Telos.com |
| Telos Information Systems - EDOS | | hammock@gmd.trw.com |
| 7474 Greenway Center Drive; Suite 400 | | Voice: +1 301 507-5904 |
| Greenbelt, Maryland 20770 | | FAX: +1 301 507-5892 |

From randyh@gvgadg.gvg.TEK.COM Tue Dec 19 11:18:06 1995
 Received: from inet1.tek.com (inet1.tek.com [134.62.48.21]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id LAA02718 for <aprssig@tapir.org>; Tue, 19 Dec 1995 11:18:00 -0600 (CST)
 Received: by inet1.tek.com id <AA26834@inet1.tek.com>; Tue, 19 Dec 1995 09:17:23 -0800
 Received: from tektronix.tek.com(134.62.48.24) by inet1 via smap (V1.3) id sma030129; Tue Dec 19 09:16:59 1995
 Received: from gv-gate.gvg.tek.com by tektronix.TEK.COM (4.1/8.2) id AA00837; Tue, 19 Dec 95 09:16:57 PST
 Received: from gvgadg.gvg.tek.com by gv-gate.gvg.tek.com (5.0/2.3) id AA05088; Tue, 19 Dec 1995 09:17:07 +0800
 Received: by gvgadg.gvg.tek.com (4.1/SMI-4.1) id AA16208; Tue, 19 Dec 95 09:17:06 PST
 Message-Id: <9512191717.AA16208@gvgadg.gvg.tek.com>
 To: aprssig@tapir.org
 Subject: Re: [APRSSIG:5355] Re: GPS-45 Auto Shut Off
 In-Reply-To: Your message of "Tue, 19 Dec 95 09:44:34 CST." <951219103103_75871020@mail04.mail.aol.com>
 Date: Tue, 19 Dec 95 09:17:05 PST
 From: "Randy Hall" <randyh@gvgadg.gvg.TEK.COM>

Thanks for the info on the GPS-45 shutting itself off. I put fresh batteries in it and that seems to help.

Getting everything ready for the trip.

I really cut down the cable mess.

I am using a FT-470 HT for the radio. I gutted an old battery pack and made

that my junction box for most of the cables. I now velcro the pico on the back of the radio, and have a 6" audio cable going to the top of the 470. I also now have the power/data cable from the GPS-45 going into the junction battery pack. Inside the pack I have two fuses, one for the radio/pico and the other for the GPS. There are two 6" cables from the junction pack to carry power and data to the pico. So, many of the cables have been shorten. I then have one power cable from the junction pack to my 12V 6.5 AH battery.

This now makes for a rather compact setup. So the cables are:

```
GPS ANT ----- GPS RCV -----JUNCTION PACK / RADIO -----POWER
                                   |
                                   |
                                   PICO
                                   |
                                   |
                                   LAPTOP, if used
```

So, back to packing and tweaking the setup. On the train tomorrow!!

Randy
WA2AGE

From bob@ia-ngnet.army.mil Tue Dec 19 11:22:53 1995
Received: from iagate.guard.state.ia.us (iagate.guard.state.ia.us [165.206.175.52]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id LAA03640 for <aprssig@tapir.org>; Tue, 19 Dec 1995 11:22:44 -0600 (CST)
Received: from ngbia2 by iagate.guard.state.ia.us id aa25899; 19 Dec 95 11:23 CST
Received: from ngbia1 by ngbia2.ia-ngnet.army.mil id aa01188; 19 Dec 95 11:24 CST
Received: from [132.96.50.133] by ngbia1.ia-ngnet.army.mil id aa20264; 19 Dec 95 11:22 CST
Message-ID: <30D7121A.2991@ia-ngnet.army.mil>
Date: Tue, 19 Dec 1995 11:27:22 -0800
From: Bob Powers <bob@ia-ngnet.army.mil>
X-Mailer: Mozilla 2.0b3 (Win16; I)
MIME-Version: 1.0
To: aprssig@tapir.org
Subject: TNC strings to an AEA PK-900
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Bob,

I am using APRS 7.4e with an AEA PK-900. I know you have built some functions in to handle the dual port capability, but had a few questions.

- 1) What port are you assuming APRS to be running on (Port 2?)
- 2) What are you using for the port switch character (|?)
- 3) When sending commands, are you sure they are going to the correct port?

My main question is with question 3. I think I know the answer to the

first 2. When sending commands that are port specific the command is:
port 1 command/port 2 command. And if your are only concerned with port
2 you can leave out the port one stuff and just preceed the command with
a / such as /mon 2 would change port 2 monitor level. From what I could
see this is not being done and many of the commands such as unproto are
being sent to port 1.

Bob Powers N0YKX
bob@iagate.guard.state.ia.us

From DDOBBINS@aol.com Tue Dec 19 11:55:21 1995
Received: from emout05.mail.aol.com (emout05.mail.aol.com [198.81.10.37]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id LAA05833 for <aprssig@tapr.org>; Tue, 19
Dec 1995 11:55:17 -0600 (CST)
From: DDOBBINS@aol.com
Received: by emout05.mail.aol.com (8.6.12/8.6.12) id MAA19350 for
aprssig@tapr.org; Tue, 19 Dec 1995 12:54:45 -0500
Date: Tue, 19 Dec 1995 12:54:45 -0500
Message-ID: <951219125444_94462024@emout05.mail.aol.com>
To: aprssig@tapr.org
Subject: GPS and missiles

Aloha all. I believe the Iraqis did have a number of Garmin 45's installed in
their SCUD ballistic missiles but suffered the same problem as the rest of
us, when the missile exceeded 99 kts, which of couse was about 1 second after
liftoff, the GPS lost track and failed to provide the crucial guidance needed
for ballistic bombing. So there you go, with SA and limited speed (marketing
strategy) of the Garmin 45, it is no good for cruise missiles either.
Personally I love my Garmin 45. I've used it in the car, a rubber zodiac and
airplane cruising around Oahu, and in just a minute I'm going to use it to
find my favorite spot at the beach. Dave.

From ke4eer@ro.com Tue Dec 19 11:57:02 1995
Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tapr.org
(8.7.2/8.7.2) with SMTP id LAA05875 for <aprssig@tapr.org>; Tue, 19 Dec 1995
11:56:59 -0600 (CST)
Received: from ts1p16.ro.com (ts1p16.ro.com [205.216.92.36]) by sh1.ro.com
(8.6.9/8.6.9) with SMTP id NAA17995 for <aprssig@tapr.org>; Tue, 19 Dec 1995
13:03:57 -0600
Message-Id: <199512191903.NAA17995@sh1.ro.com>
X-Mailer: InternetWorks Mail and News 1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Tue, 19 Dec 1995 11:56:41
From: ke4eer@ro.com (William Nolle)
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5364] Re: Hookup's

This is great and just what i'm talking about, but it's not complete in a sence
that a new ham just getting this fine looking new equipment like a GPS and a
brand new KPC3 now he knows how to hook the two together but how does
he program the TNC to work with the GPS without having to spend hours
looking trough the manual and trying his setting only to find out it didn't work.

an external Ant. but it has never turned it OFF.

2. If your external power supply has a drop out or power dip and the internal batteries are low that could shut it off.
3. If you get a poor coverage message for over 60+ min the unit will shut off. Others hav reported this on the Nav sig. I have Version 2.32

I have left my tracker box on for days in the car (using the normal mode) and the Garmin-45 stays on but if parked in a metal car port the unit is off in the morning. I use an external GPS antenna for the tracker.

Try an expirment with your unit and replrt back.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

From tyork@sas.upenn.edu Tue Dec 19 12:37:04 1995
Received: from mail1.sas.upenn.edu (tyork@MAIL1.SAS.UPENN.EDU [165.123.26.32]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id MAA07820 for <aprssig@tapir.org>; Tue, 19 Dec 1995 12:37:01 -0600 (CST)
Received: (from tyork@localhost) by mail1.sas.upenn.edu (8.6.11/SAS 8.04) id NAA23797 for aprssig@tapir.org; Tue, 19 Dec 1995 13:36:44 -0500
From: tyork@sas.upenn.edu (Tamara York)
Posted-Date: Tue, 19 Dec 1995 13:36:44 -0500
Message-Id: <199512191836.NAA23797@mail1.sas.upenn.edu>
Subject: Re: signoff
To: aprssig@tapir.org
Date: Tue, 19 Dec 1995 13:36:43 -0500 (EST)
In-Reply-To: <Pine.SUN.3.91.951219101318.20530K-100000@greatlakes> from "Bob Bruninga" at Dec 19, 95 10:26:18 am
X-Mailer: ELM [version 2.4 PL23-upenn2.9]
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

Bob...

I'm trying to signoff from this SIG, but the computer refuses to do iot.
can you please help?

Art York

tyork@mail.sas.upenn.edu

From sparkfel@primenet.com Tue Dec 19 13:58:07 1995
Received: from mailhost1.primenet.com (mailhost1.primenet.com [198.68.32.51]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id NAA00274 for <aprssig@tapir.org>; Tue, 19 Dec 1995 13:58:04 -0600 (CST)
Received: from usr5.primenet.com (root@usr5.primenet.com [198.68.32.15]) by mailhost1.primenet.com (8.7.1/8.7.1) with ESMTP id MAA05841 for <aprssig@tapir.org>; Tue, 19 Dec 1995 12:18:47 -0700 (MST)

Received: from ip209.phx.primenet.com (ip209.phx.primenet.com [198.68.46.209]) by usr5.primenet.com (8.7.1/8.7.1) with SMTP id MAA26663; Tue, 19 Dec 1995 12:18:46 -0700 (MST)

Date: Tue, 19 Dec 1995 12:18:46 -0700 (MST)

Message-Id: <199512191918.MAA26663@usr5.primenet.com>

X-Sender: sparkfel@mailhost.primenet.com

X-Mailer: Windows Eudora Version 1.4.4

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

To: aprssig@tapr.org, aprssig@tapr.org

From: sparkfel@primenet.com (Mark Fellhauer)

Subject: Re: [APRSSIG:5367] GPS and missiles

At 12:02 PM 12/19/95 -0600, DDOBBINS@aol.com wrote:

>Aloha all. I believe the Iraqis did have a number of Garmin 45's installed in
>their SCUD ballistic missiles but suffered the same problem as the rest of
>us, when the missile exceeded 99 kts, which of course was about 1 second after
>liftoff, the GPS lost track and failed to provide the crucial guidance needed
>for ballistic bombing.

I've heard this story before, but have never seen anything to substantiate the claim. I believe SCUD's of this ilk are fitted with fairly simple inertial guidance systems and were never designed for pinpoint targeting. They are a cheap terror weapon akin to the V-1 and V-2 and not much more complex.

Perhaps we can find a person stationed at Aberdeen Proving Grounds...

Mark Fellhauer

KC7BXS

sparkfel@primenet.com

From sparkfel@primenet.com Tue Dec 19 14:02:32 1995

Received: from mailhost1.primenet.com (mailhost1.primenet.com [198.68.32.51]) by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id OAA00794 for <aprssig@tapr.org>; Tue, 19 Dec 1995 14:02:29 -0600 (CST)

Received: from usr1.primenet.com (root@usr1.primenet.com [198.68.32.11]) by mailhost1.primenet.com (8.7.1/8.7.1) with ESMTP id MAA05498 for <aprssig@tapr.org>; Tue, 19 Dec 1995 12:10:07 -0700 (MST)

Received: from ip209.phx.primenet.com (ip209.phx.primenet.com [198.68.46.209]) by usr1.primenet.com (8.7.1/8.7.1) with SMTP id MAA05942; Tue, 19 Dec 1995 12:10:05 -0700 (MST)

Date: Tue, 19 Dec 1995 12:10:05 -0700 (MST)

Message-Id: <199512191910.MAA05942@usr1.primenet.com>

X-Sender: sparkfel@mailhost.primenet.com

X-Mailer: Windows Eudora Version 1.4.4

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

To: aprssig@tapr.org, aprssig@tapr.org

From: sparkfel@primenet.com (Mark Fellhauer)

Subject: Re: [APRSSIG:5368] Re: Hookup's

At 12:04 PM 12/19/95 -0600, William Nolle wrote:

>This is great and just what i'm talking about, but it's not complete in a sence
>that a new ham just getting this fine looking new equipment like a GPS and a
>brand new KPC3 now he knows how to hook the two together but how does
>he program the TNC to work with the GPS without having to spend hours
>looking trough the manual and trying his setting only to find out it didn't
work.
>Maybe i'm just asking to much?. By the way Randy thanks i am going to save
>these files so in the future if someone askes the question i can supply the
>info to him.
>
>Bill KE4EER
>-----

Bill,

Hooking up a KPC-3 to a GPS is a simple operation. Kantronics even included a one page instruction sheet on this when I got my firmware upgrade. Although it's been a while since I've done it, it seems to me I only had to set one or two lines in the KPC-3 and set the intface command to GPS. To my surprise, the first time I did this, APRS started accepting the RAW GPS data right away, and displaying it on the map in the correct position.

Note: I did have the advantage of two trancivers and two TNC's, so setting up a low power simplex link was not a problem. This does help in trouble shooting. I really like the fact that I can turn the GPS Beacon on and off via the remote mode of the KPC-3.

It didn't take me hours, it only took about 5 minutes. Of course, since I usually use a digital mode repeater for my APRS work, setting pathways isn't necessary, and I've never bothered to alter my GPS string, since APRS will accept the raw data. The only thing I've changed is my SSID to get different icons. But since this is all stored in the KPC-3's memory all I have to do is set the intface to GPS when I want to use the setup as a tracker. I admit it may be a little more difficult in other circumstances.

If you (or anyone else with a KPC-3) require assistance, please e-mail me.

Mark Fellhauer
KC7BXS
ThunderBird ARC Packet Coordinator
sparkfel@primenet.com

From jim.deloach@cellnet.com Tue Dec 19 14:13:45 1995
Received: from smoke-2.cellnet.com (smoke-1.cellnet.com [148.80.1.2]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id OAA05076 for <aprssig@tapir.org>; Tue, 19 Dec 1995 14:13:42 -0600 (CST)
Received: (from uucp@localhost) by smoke-2.cellnet.com (8.6.12/8.6.9) id MAA05833 for <aprssig@tapir.org>; Tue, 19 Dec 1995 12:13:39 -0800
Received: from cellmail.cellnet.com(148.80.2.20) by smoke.cellnet.com via smap (V1.3mjr)

id sma005826; Tue Dec 19 12:13:26 1995
Received: from deloachpc (deloachpc.cellnet.com [148.80.9.60]) by
cellmail.cellnet.com (8.6.12/8.6.9) with SMTP id MAA04521 for <aprssig@tapr.org>;
Tue, 19 Dec 1995 12:13:26 -0800
Message-Id: <199512192013.MAA04521@cellmail.cellnet.com>
X-Sender: jdd@mailhost
X-Mailer: Windows Eudora Pro Version 2.1.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Tue, 19 Dec 1995 12:06:58 -0800
To: aprssig@tapr.org
From: Jim DeLoach <jim.deloach@cellnet.com>
Subject: Re: GPS and missiles

Look folks, the first nuclear bomb to go off in the United States will
probably ride in on a donkey cart!

The real issue is that our government needs to realize that the GPS system
is both a military AND a commercial resource crucial to our nations well
being. SA is merely spawning a differential-correction industry (companies
like DCI, and organizations like the Coast Guard) that aren't really
necessary, and I doubt it is contributing much to our security. My guess is
that should ICBMs get launched, GPS would totally shut off or otherwise make
itself useless to hostile forces.

On a related note, isn't it about time GPS users who are not US tax payers
contributed to its upkeep? Is this already happening? How about we shut
the birds down from time to time over other parts of the world till some
other well to do nations pony-up?

Cheers.
Jim, WUOI

From bruninga@nadm.navy.mil Tue Dec 19 14:58:16 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id OAA00198 for <aprssig@tapr.org>; Tue,
19 Dec 1995 14:58:13 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
PAA27937; Tue, 19 Dec 1995 15:58:37 -0500
Date: Tue, 19 Dec 1995 15:58:37 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapr.org
Subject: Quick Question
Message-ID: <Pine.SUN.3.91.951219155428.27895A-1000000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I just went to fix the U-2000 overflow problem and noticed that every
time I start up APRS, that the TNC sends out some of the TNC-INIT stuff
over the air.

I know this happens sometimes, but now it is happening EVERYTIME. I RESET
my TNC to factory defaults, and it still does it! (each startup of APRS)

This is with 74e. Is everyone else seeing this or Have I just got my TNC
screweed up...

|DE WB4APR in Annapolis MD.|

From geh@aip.org Tue Dec 19 15:04:54 1995
Received: from aip.org (pinet.aip.org [192.58.150.10]) by sys1.tapir.org
(8.7.2/8.7.2) with SMTP id PAA00985 for <aprssig@tapir.org>; Tue, 19 Dec 1995
15:04:50 -0600 (CST)
Date: Tue, 19 Dec 95 16:04:45 EST
From: geh@aip.org (gordon_hardman)
Message-Id: <9512192104.AA06106@aip.org>
In-Reply-To: Jim DeLoach's message of 12/19/95
To: aprssig@tapir.org
Subject: Re: [APRSSIG:5373] Re: GPS and missiles

Two points to ponder were made at the ION GPS-95 conference:

- 1) Having S.A. on during peacetime enables a potential adversary to develop and test means of defeating it (SA!), thereby rendering it ineffective during periods of tension.....
- 2) Reliability of the GLONASS spacecraft has increased dramatically over the last couple of years ther
there are now almost as many Russian satelllites on line as GPS- and dual-compatible receiver designs are being developed.

In response to the comment on velocity limits, commercial vendors (in the US at least) of SPS receivers are obliged by the US government to limit either velocity or altitude useability of their receivers in order to preclude their use in guided munitions.

Gordon Hardman
KE3D
<geh@aip.org>

From bruninga@nadm.navy.mil Tue Dec 19 15:09:03 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id PAA01259 for <aprssig@tapir.org>; Tue,
19 Dec 1995 15:09:01 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
QAA28128; Tue, 19 Dec 1995 16:09:23 -0500
Date: Tue, 19 Dec 1995 16:09:22 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:5366] TNC strings to an AEA PK-900
In-Reply-To: <30D7121A.2991@ia-ngnet.army.mil>
Message-ID: <Pine.SUN.3.91.951219160513.27895B-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 19 Dec 1995, Bob Powers wrote:

> I am using APRS 7.4e with an AEA PK-900. I know you have built some
> functions in to handle the dual port capability, but had a few questions.
> When sending commands, are you sure they are going to the correct port?
>
> When sending commands that are port specific the command is:
> port 1 command/port 2 command.

APR REPLY: APRS sends the commands just as you enter them... If you want to set up a path of X,Y,Z on the first port and A,B,C on the second one, then you must enter an unproto path of X,Y,Z/APRS VIA A,B,C...

APRS will send the path just as you enter it. So put what ever you want into the proto command including dual port paths. Notice that APRS DOES put the initial UNPROTO APRS VIA.... on the beginnning....

|DE WB4APR in Annapolis MD.|

From jim.deloach@cellnet.com Tue Dec 19 15:20:04 1995
Received: from smoke-2.cellnet.com (smoke-1.cellnet.com [148.80.1.2]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id PAA02844 for <aprssig@tapr.org>; Tue, 19 Dec 1995 15:20:01 -0600 (CST)
Received: (from uucp@localhost) by smoke-2.cellnet.com (8.6.12/8.6.9) id NAA06602 for <aprssig@tapr.org>; Tue, 19 Dec 1995 13:19:52 -0800
Received: from cellmail.cellnet.com(148.80.2.20) by smoke.cellnet.com via smap (V1.3mjr)
id sma006595; Tue Dec 19 13:18:53 1995
Received: from deloachpc (deloachpc.cellnet.com [148.80.9.60]) by cellmail.cellnet.com (8.6.12/8.6.9) with SMTP id NAA05927 for <aprssig@tapr.org>; Tue, 19 Dec 1995 13:18:51 -0800
Message-Id: <199512192118.NAA05927@cellmail.cellnet.com>
X-Sender: jdd@mailhost
X-Mailer: Windows Eudora Pro Version 2.1.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Tue, 19 Dec 1995 13:12:24 -0800
To: aprssig@tapr.org
From: Jim DeLoach <jim.deloach@cellnet.com>
Subject: Error Ellipse from NMEA-0183 output??

I would like to know the error ellipse for GPS-provided position reading. For my purposes, an error ellipse is a 2-D region around the predicted lat/long wherein the confidence that the "true" position is within this region exceeds some threshold (like 50% or 95%). It seems that an error ellipse might be real handy if the x-dimension error is much greater then the y-dimension, or visa versa.

Is such a thing output as part of the NMEA-0183 spec? I am using a Garmin GPS-75 at the moment, with a commercially provided differential correction input. I would appreciate any suggestions.

Thanks.
Jim, WUOI

From S.Miller@RUS.Uni-Stuttgart.DE Tue Dec 19 15:20:29 1995
Received: from artemis.rus.uni-stuttgart.de (artemis.rus.uni-stuttgart.de [129.69.18.28]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id PAA02863 for <aprssig@tapir.org>; Tue, 19 Dec 1995 15:20:16 -0600 (CST)
Received: from intelsun.rus.uni-stuttgart.de (intelsun.rus.uni-stuttgart.de [129.69.13.50]) by artemis.rus.uni-stuttgart.de with SMTP id WAA02471 (8.6.12/IDA-1.6 for <aprssig@tapir.org>); Tue, 19 Dec 1995 22:19:38 +0100
Received: by intelsun.rus.uni-stuttgart.de (4.1/BelWue-1.1S(subsidiary)) id AA09690; Tue, 19 Dec 95 22:24:44 +0100
From: S.Miller@RUS.Uni-Stuttgart.DE (Shannon Miller)
Message-Id: <9512192124.AA09690@intelsun.rus.uni-stuttgart.de>
Subject: Re: [APRSSIG:5373] Re: GPS and missiles
To: aprssig@tapir.org
Date: Tue, 19 Dec 1995 22:24:43 +0100 (MET)
In-Reply-To: <199512192013.MAA04521@cellmail.cellnet.com> from "Jim DeLoach" at Dec 19, 95 02:26:31 pm
X-Mailer: ELM [version 2.4 PL21]
Content-Type: text

Jim DeLoach writes:

> On a related note, isn't it about time GPS users who are not US tax payers
> contributed to its upkeep? Is this already happening? How about we shut
> the birds down from time to time over other parts of the world till some
> other well to do nations pony-up?

I've had the same thoughts, but be careful! One idea already tossed around by some armchair lawmakers at one point was: those who USE GPS PAY for it, and the best way to collect usage fees is to either charge a tax (potentially very large) on all GPS receivers, and/or (2) require a license and an annual fee in order to own a GPS receiver. Your idea might work and get other countries to pay up, but it also might mean changes for GPS users in the U.S. as well. Changes you may not favor.

--Shannon, DL6SEU (A German *and* a U.S. taxpayer!)

From bruninga@nadm.navy.mil Tue Dec 19 16:20:03 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id QAA06474 for <aprssig@tapir.org>; Tue, 19 Dec 1995 16:20:00 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id RAA28840; Tue, 19 Dec 1995 17:20:26 -0500
Date: Tue, 19 Dec 1995 17:20:25 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapir.org
Subject: U-2000 beta fix
Message-ID: <Pine.SUN.3.91.951219171717.28824A@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I just posted beta2000.zip which contains APRS74f.exe which is a beta

test of the fixes to make the U-2000 avoid COM OVERFLOWS...

If you have a U-2000, please give it a try...

If anyone here is in SE Michigan, please keep KD1E informed of whats going on here. He doesnt need to get this BETA, but if it works, then he needs to get the version 75 when I release it, since he has a 2000...

|DE WB4APR in Annapolis MD.|

From Paul_Moller@csg.mot.com Tue Dec 19 16:33:10 1995
Received: from motgate.mot.com (motgate.mot.com [129.188.136.100]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id QAA07570 for <aprssig@tapir.org>; Tue, 19 Dec 1995 16:33:04 -0600 (CST)
Received: from pobox.mot.com (pobox.mot.com [129.188.137.100]) by motgate.mot.com (8.7.1/8.6.10/MOT-3.8) with ESMTP id QAA21613 for <aprssig@tapir.org>; Tue, 19 Dec 1995 16:32:24 -0600 (CST)
Received: from OAMPC10.csg.mot.com (OAMPC10.csg.mot.com [144.188.134.33]) by pobox.mot.com (8.7.1/8.6.10/MOT-3.8) with SMTP id QAA10348 for <aprssig@tapir.org>; Tue, 19 Dec 1995 16:32:23 -0600 (CST)
Received: from PaulM_PC.csg.mot.com (PaulM_PC.csg.mot.com [144.188.36.8]) by OAMPC10.csg.mot.com (8.6.8.1/8.6.6) with SMTP id QAA06547 for <aprssig@tapir.org>; Tue, 19 Dec 1995 16:39:53 -0600
Message-Id: <2.2b9.32.19951219223247.006a2858@144.188.134.33>
X-Sender: mollpj@144.188.134.33
X-Mailer: Windows Eudora Pro Version 2.2b9 (32)
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Tue, 19 Dec 1995 16:32:47 -0600
To: aprssig@tapir.org
From: Paul Moller <Paul_Moller@csg.mot.com>
Subject: enough is enough

Alright guys, the discussions lately have gotten off the topic of APRS a little too much for my taste. Bombs and politics make interesting discussions, ELSEWHERE. Thanks.

Paul, WD9ABE
Maybe closer to GLNTC than anybody (5 miles).

From DDOBBINS@aol.com Tue Dec 19 16:39:18 1995
Received: from emout05.mail.aol.com (emout05.mail.aol.com [198.81.10.37]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id QAA07900 for <aprssig@tapir.org>; Tue, 19 Dec 1995 16:39:15 -0600 (CST)
From: DDOBBINS@aol.com
Received: by emout05.mail.aol.com (8.6.12/8.6.12) id RAA15688 for aprssig@tapir.org; Tue, 19 Dec 1995 17:38:42 -0500
Date: Tue, 19 Dec 1995 17:38:42 -0500
Message-ID: <951219171526_58628553@emout05.mail.aol.com>
To: aprssig@tapir.org

Subject: Re: [APRSSIG:5374] Quick Question

Have not seen mine do this, but will take a close look next boot up. Dave.

From schiers@ibm.net Tue Dec 19 16:44:51 1995

Received: from smtp-gw01.ny.us.ibm.net ([165.87.194.252]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id QAA07947 for <aprssig@tapir.org>; Tue, 19 Dec 1995 16:44:44 -0600 (CST)

Received: (from uucp@localhost) by smtp-gw01.ny.us.ibm.net (8.6.9/8.6.9) id WAA38772 for <aprssig@tapir.org>; Tue, 19 Dec 1995 22:44:28 GMT

Message-Id: <199512192244.WAA38772@smtp-gw01.ny.us.ibm.net>

Received: from slip230-98.mo.us.ibm.net(129.37.230.98) by smtp-gw01.ny.us.ibm.net via smap (V1.3mjr)

id smal2QDe7; Tue Dec 19 22:44:17 1995

Date: Tue, 19 Dec 95 22:42:07 EST

From: schiers@ibm.net (hasan schiers)

Reply-To: schiers@ibm.net (hasan schiers)

To: aprssig@tapir.org

X-Mailer: hasan schiers's PMMail v1.1

Subject: Re: [APRSSIG:5353] Another U-2000 test?

On Tue, 19 Dec 1995 09:07:48 -0600 (CST) you wrote:

>On Mon, 18 Dec 1995, hasan schiers wrote:

>

>> I have tried to set it below 5, but it won't go...and still getting crashes
>> every few minutes while set at 5. Time to shut it off until the code gets
>> fixed.

>

>APR REPLY: OK, I still cannot reproduce the problem on my 486 33. Can those
>of you with U-2000's COLD BOOT to DOS without ANYTHING else. Then confirm
>if you still have the problem?

>

Great suggestion, Bob...I was just about to do that myself. I commented out the memory manager, eliminated everything but a path statement from autoexec.bat, deleted config.sys by renaming it. Result: no change, crash, crash, crash. MS-DOS 6.2, in case that is relevant. What DOS are you using?

Just went to dos 5.00....same result, crash. Error 6.

In both cases I tried update at 8 and 5 seconds (Wx update)

Any other ideas, I will be most willing to help. 73,

robert "hasan" schiers

Ham Radio Packet: n0an@n0an.ia.usa.noam

From schiers@ibm.net Tue Dec 19 17:48:55 1995

Received: from smtp-gw01.ny.us.ibm.net ([165.87.194.252]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id RAA11920 for <aprssig@tapir.org>; Tue, 19 Dec 1995

17:48:48 -0600 (CST)

Received: (from uucp@localhost) by smtp-gw01.ny.us.ibm.net (8.6.9/8.6.9) id XAA35524 for < aprssig@tapr.org>; Tue, 19 Dec 1995 23:48:44 GMT

Message-Id: <199512192348.XAA35524@smtp-gw01.ny.us.ibm.net>

Received: from slip230-90.mo.us.ibm.net(129.37.230.90) by smtp-gw01.ny.us.ibm.net via smap (V1.3mjr)

id smaP70CzR; Tue Dec 19 23:48:39 1995

Date: Tue, 19 Dec 95 23:01:31 EST

From: schiers@ibm.net (hasan schiers)

Reply-To: schiers@ibm.net (hasan schiers)

To: aprssig@tapr.org

X-Mailer: hasan schiers's PMMail v1.1

Subject: Re: [APRSSIG:5360] U-2000

On Tue, 19 Dec 1995 10:04:25 -0600 (CST) you wrote:

>

>I've been following the problem reports re: overflow w/U-2000. I *just*
>ordered my U-2000 (Tuesday morning) and so have an interest.

>

>One comment, if I may.... The brochure for the U-2000 talks about the four
>mode I/O port. Is there a difference in the data rate between "Data logging
>mode," (i.e., about once per second), and the "Complete record mode," (i.e.,
>once per second, but more data) ? What mode is everybody using, both Bob,
>and those having trouble ? Could it be as simple as the "wrong" mode ?

>

>Is anybody using a U-2000 in "Packet," or "Modem" mode ? I plan on using it
>in Packet mode, w/AEA PK-12 TNC and radio, NO computer. Anybody tried this
>yet ? Problems?

>

>Thanks.

>73 de Donn

>WA2VOI/O

Don, the only mode supported by APRS (computer program) is the data logging mode. (AFAIK)

We DO NOT want to change to another mode for use with APRS software or we lose the ability to use the 2nd serial port output of the U-2000 for logging real time data to disk. The Peet Bros software requires that the U-2000 be left in the data logging mode, so for APRS with computer setups, it is IMPERATIVE to stay with the standard data logging mode.

Besides, I am not sure APRS will properly decode the "packet mode" output of the U-2000, as it was designed to parse a full data sentence from the data logging mode. One thing to keep in mind: the structure of the data coming out of the U-2000 is TOTALLY DIFFERENT for each of the four supported modes, i.e., data logging, packet, complete, modem.

So far we have learned this much:

1. Some machines don't see the problem at all (Bob's for instance!)
2. Those of us having the problem (everyone else?) see some improvement

by updating the Wx data more frequently than the default of every 15 seconds. Bob uses 8, and I have tried 5. In each case, the program would go longer without crashing, but still crashed. At 15 seconds, it crashed immediately.

3. It does not seem to matter whether one is running dos 5.0 or 6.2, both produce the same problem.
4. Eliminating memory managers like QEMM, doesn't help.
5. Speed of the machine doesn't seem to help. Bob is running a 486dx33, I am running a 486dx2/80 with 8 mb ram and a fast pci video card.

Looks like a timing or sampling problem because the U2000 puts out MUCH more data than the older U-II did. (90 data sentences per minute vs. 17)

Bob will get this figured out...he has everything else! It is a pity he can't reproduce it with his own machine. That is going to make the fix much more difficult.

73,

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

From schiers@ibm.net Tue Dec 19 17:49:07 1995
Received: from smtp-gw01.ny.us.ibm.net ([165.87.194.252]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id RAA11963 for <aprssig@tapir.org>; Tue, 19 Dec 1995 17:49:02 -0600 (CST)
Received: (from uucp@localhost) by smtp-gw01.ny.us.ibm.net (8.6.9/8.6.9) id XAA28364 for <aprssig@tapir.org>; Tue, 19 Dec 1995 23:48:55 GMT
Message-Id: <199512192348.XAA28364@smtp-gw01.ny.us.ibm.net>
Received: from slip230-90.mo.us.ibm.net(129.37.230.90) by smtp-gw01.ny.us.ibm.net via smap (V1.3mjr)
id smamb4CrX; Tue Dec 19 23:48:43 1995
Date: Tue, 19 Dec 95 23:10:50 EST
From: schiers@ibm.net (hasan schiers)
Reply-To: schiers@ibm.net (hasan schiers)
To: aprssig@tapir.org
X-Mailer: hasan schiers's PMMail v1.1
Subject: Re: [APRSSIG:5335] I Lied (7.4e & U-2000)

On Tue, 19 Dec 1995 00:26:10 -0600 (CST) you wrote:

>
>'Specially for Bob & Keith
>But For the SIG too...
>
>Setting the POSRate for the 5-seconds works ok if NOTHING else
>is fiddled with. If you don't touch the keyboard, APRS will sample
>the COM2: port (in my case), get the U-2000 weather and return
>to monitoring the frequency.
>
>Touch the keyboard, however, as I wanted to input the snow symbol,

>and lockup... Comm-buffer-overflow and you have to CTRL-ALT-DEL
>the computer. This was running on a 286 by the way... not my 486/66
>so maybe the faster CPU would not let the buffers overflow, but then
>maybe it would!
>
>I can unplug the DB-25 connector on the COM2: port and it will "empty out"...
>sometimes, but redrawing the map is slow enough on the 286 to cause it to
>lock up again...
>
>So, I guess there really is a problem after all... faster wx station
>output... more data to parse... hmmm!
>
>73 de Boyd (w2hob@aol.com)
>

Boyd, exactly right, there is a problem. There are at least 3 of us having it.
What kind of machine you running, what version dos? How much memory?
Any memory managers running? What bios? 73,

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

From AC6JA@aol.com Tue Dec 19 18:32:29 1995
Received: from emout05.mail.aol.com (emout05.mail.aol.com [198.81.10.37]) by
sys1.taprr.org (8.7.2/8.7.2) with SMTP id SAA14140 for <aprssig@taprr.org>; Tue, 19
Dec 1995 18:32:26 -0600 (CST)
From: AC6JA@aol.com
Received: by emout05.mail.aol.com (8.6.12/8.6.12) id TAA06733 for
aprssig@taprr.org; Tue, 19 Dec 1995 19:31:19 -0500
Date: Tue, 19 Dec 1995 19:31:19 -0500
Message-ID: <951219193117_94810667@emout05.mail.aol.com>
To: aprssig@taprr.org
Subject: AC6JA

subscribe

From ke4eer@ro.com Tue Dec 19 18:45:43 1995
Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.taprr.org
(8.7.2/8.7.2) with SMTP id SAA14581 for <aprssig@taprr.org>; Tue, 19 Dec 1995
18:45:40 -0600 (CST)
Received: from ts2p1.ro.com (ts2p1.ro.com [205.216.92.51]) by sh1.ro.com
(8.6.9/8.6.9) with SMTP id TAA02094 for <aprssig@taprr.org>; Tue, 19 Dec 1995
19:44:52 -0600
Message-Id: <199512200144.TAA02094@sh1.ro.com>
X-Mailer: InternetWorks Mail and News 1.1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Tue, 19 Dec 1995 18:37:32
From: ke4eer@ro.com (William Nolle)
To: aprssig@taprr.org
Subject: Re: [APRSSIG:5380] enough is enough

I agree, the missile issue specially, what does it have to do with APRS anyway, not that i read it anymore (Just hit the delete key) but see hardly anything anymore directly related the APRS.

Go ahead FLAME

KE4EER

>Alright guys, the discussions lately have gotten off the topic of APRS a
>little too much for my taste. Bombs and politics make interesting
>discussions, ELSEWHERE. Thanks.

>

>Paul, WD9ABE

>Maybe closer to GLNTC than anybody (5 miles).

>

From tweedy@pc.gcs.litton.com Tue Dec 19 19:39:44 1995

Received: from lcsdns1.litton.com (lcsdns1.litton.com [139.61.7.2]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id TAA16807 for <aprssig@tapr.org>; Tue, 19
Dec 1995 19:39:33 -0600 (CST)

Received: from lcsipdp (lcsipdp.litton.com) by lcsdns1.litton.com (4.1/SMI-4.1)
id AA28584; Tue, 19 Dec 95 17:36:59 PST

Received: from pc.gcs.litton.com by lcsipdp (4.1/SMI-4.1)
id AA07020; Tue, 19 Dec 95 17:53:44 PST

Received: from Connect2 Message Router by pc.gcs.litton.com
via Connect2-SMTP 4.00; Tue, 19 Dec 95 17:40:10 -0800

Message-Id: <313ED73001B4ABAA@pc.gcs.litton.com>

In-Reply-To: <0021D73001B4ABAA>

Date: Tue, 19 Dec 95 17:36:28 -0800

From: "TWEEDY, MIKE WH:2453" <tweedy@pc.gcs.litton.com>

Sender: "TWEEDY, MIKE WH:2453" <tweedy@pc.gcs.litton.com>

Organization: Litton GC/S

To: aprssig@tapr.org

Subject: Re: [APRSSIG:5377] Error Ellips

X-Mailer: Connect2-SMTP 4.00 MHS to SMTP Gateway

Jim-

For standard SPS service (i.e. L1 only), the reported accuracy ellipsoid as I recall is 100 meters horizontal, 168 meters vertical, 2-sigma (95% confidence). However, you stated that you are currently using a Garmin GPS-75 with commercially provided differential corrections. In that case you should defer to the claimed accuracies offered for the type of service. DCI Corrections and Acqpoint can provide accuracies within a few meters to sub-meter levels depending on the type of subscription service you choose. The USCG differential beacon stations are good to within tens of meters and is a free service but requires the purchase of a beacon receiver.

As far as the NMEA-0183 standard, the only NMEA sentences I found that might help give you a "feel" for absolute accuracy were \$GPGGA and \$GPGSA. \$GPGGA provides a value for HDOP (horizontal dilution of precision) and also provides the time in seconds since the last SC104

Type 1 or Type 9 update. \$GPGSA provides the PRN numbers of all the satellites used in the navigation solution plus provides values for HDOP, VDOP (vertical DOP), and PDOP (position DOP). [Info only--PDOP is the root sum square or RSS of HDOP and VDOP]. In general, a PDOP of 3 or less is desirable and indicates acceptable satellite geometry. PDOP can increase if certain satellites are blocked from view forcing a navigation solution from less optimally positioned satellites. Since I do not have a Garmin GPS-75, I do not know if any of the above information may be helpful.

73's de Mike KA6SPT

From W2HOB@aol.com Tue Dec 19 19:52:28 1995
Received: from mail04.mail.aol.com (mail04.mail.aol.com [152.163.172.53]) by sys1.taprr.org (8.7.2/8.7.2) with SMTP id TAA17640 for <aprssig@taprr.org>; Tue, 19 Dec 1995 19:52:22 -0600 (CST)
From: W2HOB@aol.com
Received: by mail04.mail.aol.com (8.6.12/8.6.12) id UAA29485 for aprssig@taprr.org; Tue, 19 Dec 1995 20:51:50 -0500
Date: Tue, 19 Dec 1995 20:51:50 -0500
Message-ID: <951219205149_76176867@mail04.mail.aol.com>
To: aprssig@taprr.org
Subject: Re: [APRSSIG:5374] Quick Question

For Bob (APR)

Yes... APRS does allow some TNC parms to get out on-the-air. Several of the "Jersey" users asked me about that. It kinda "initializes" the TNC so the TNC continues to beacon them until it gets it's real beacon from the U-2000 or the second line of the CFG file. Just got BETA2000.ZIP --- Will let you know what happens!

73 de Boyd AR

From schiers@ibm.net Tue Dec 19 20:16:09 1995
Received: from smtp-gw01.ny.us.ibm.net ([165.87.194.252]) by sys1.taprr.org (8.7.2/8.7.2) with SMTP id UAA18367 for <aprssig@taprr.org>; Tue, 19 Dec 1995 20:16:06 -0600 (CST)
Received: (from uucp@localhost) by smtp-gw01.ny.us.ibm.net (8.6.9/8.6.9) id CAA31663 for <aprssig@taprr.org>; Wed, 20 Dec 1995 02:16:03 GMT
Message-Id: <199512200216.CAA31663@smtp-gw01.ny.us.ibm.net>
Received: from slip230-90.mo.us.ibm.net(129.37.230.90) by smtp-gw01.ny.us.ibm.net via smap (V1.3mjr)
id smaLKUDFW; Wed Dec 20 02:15:58 1995
Date: Wed, 20 Dec 95 02:15:31 EST
From: schiers@ibm.net (hasan schiers)
Reply-To: schiers@ibm.net (hasan schiers)
To: aprssig@taprr.org
X-Mailer: hasan schiers's PMMail v1.1
Subject: Re: [APRSSIG:5379] U-2000 beta fix

On Tue, 19 Dec 1995 16:31:29 -0600 (CST) you wrote:

>I just posted beta2000.zip which contains APRS74f.exe which is a beta
>test of the fixes to make the U-2000 avoid COM OVERFLOWS...
>
>If you have a U-2000, please give it a try...
>
>If anyone here is in SE Michigan, please keep KD1E informed of whats
>going on here. He doesnt need to get this BETA, but if it works, then he
>needs to get the version 75 when I release it, since he has a 2000...
>
>
>-----
>|DE WB4APR in Annapolis MD.|
>-----

bob,

If anything it is worse. Can't even make it through initial setup without
getting the error the first time it tries to read the wx...using a setting of
5 for Wx update. Will try 15 now.....same problem...immediate crash after
validation number for wx. Sorry... 73,

robert "hasan" schiers
Ham Radio Packet: n0an@n0an.ia.usa.noam

From n2czf@gate.net Tue Dec 19 20:36:08 1995
Received: from osceola.gate.net (osceola.gate.net [199.227.0.18]) by sys1.tapir.org
(8.7.2/8.7.2) with SMTP id UAA19359 for <aprssig@tapir.org>; Tue, 19 Dec 1995
20:35:55 -0600 (CST)
From: n2czf@gate.net
Received: from 199.227.125.167 (wpbfl2-39.gate.net [199.227.125.167]) by
osceola.gate.net (8.6.12/8.6.9) with SMTP id VAA42070 for <aprssig@tapir.org>; Tue,
19 Dec 1995 21:36:55 -0500
Date: Tue, 19 Dec 1995 21:36:55 -0500
Message-Id: <199512200236.VAA42070@osceola.gate.net>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Subject: Re: [APRSSIG:5374] Quick Question
To: aprssig@tapir.org
In-Reply-To: <Pine.SUN.3.91.951219155428.27895A-1000000@greatlakes>
X-Mailer: SPRY Mail Version: 04.00.06.17

Yep, I get it also, it was all the time, then sometimes, now all the time again.

73's De Rich N2CZF
n2czf@gate.net
Jupiter Farms Florida

From W2H0B@aol.com Tue Dec 19 21:43:34 1995

Received: from mail06.mail.aol.com (mail06.mail.aol.com [152.163.172.108]) by sys1.tappr.org (8.7.2/8.7.2) with SMTP id VAA22349 for <aprssig@tappr.org>; Tue, 19 Dec 1995 21:43:32 -0600 (CST)

From: W2HOB@aol.com

Received: by mail06.mail.aol.com (8.6.12/8.6.12) id WAA25569 for aprssig@tappr.org; Tue, 19 Dec 1995 22:42:55 -0500

Date: Tue, 19 Dec 1995 22:42:55 -0500

Message-ID: <951219224254_58993371@mail06.mail.aol.com>

To: aprssig@tappr.org

Subject: U-2000 Beta So Far

So far, the 7.4f is working with my U-2000 (DATA LOGGING Mode) with no glitches EXCEPT the TNC parms that get out occassionally. I have the sampling/update rate set for my normal 15-sec's with a beacon rate of every 5 minutes.

I can play with various LISTS/Pages and even send some one-liners to some users, redraw the map and everything continues just as good as it did with the U-II.

Except for the TNCparms that "escape", looks like you got it fixed Bob... at least from my configuration here...

286 CPU 640M RAM 2 serial 1 parallel,20M HD DOS 5.0

As you can see not the most updated system but it's just a weather station... not a precision rocket launcher (!) and I'm not going to waste my two 486's on a job easily done by a lesser machine.

Thanks for taking a look at this.

73 de Boyd (w2hob@aol.com) AR

From jeff.wallach@drig.com Tue Dec 19 21:48:44 1995

Received: from mail.holonet.net (root@guardian.holonet.net [198.207.169.11]) by sys1.tappr.org (8.7.2/8.7.2) with SMTP id VAA22730 for <aprssig@tappr.org>; Tue, 19 Dec 1995 21:48:39 -0600 (CST)

Received: from drig (root@localhost) by mail.holonet.net with UUCP id TAA29594; Tue, 19 Dec 1995 19:41:38 -0800

Received: by drig (PCB-UUCP 1.1f)

id 38EC08; Tue, 19 Dec 95 21:07:41 -0600

To: aprssig@tappr.org

Subject: U-2000 Weather Stations for APRS

From: jeff.wallach@drig.com (Jeff Wallach)

Message-ID: <59.47619.99.0C38EC08@drig.com>

Date: Tue, 19 Dec 95 21:10:00 -0600

Organization: Dallas Remote Imaging Group 214-394-7325 <info@drig.com>

There has been alot of discussion on the U-2000 interface to APRS as of late.

Several of us interested parties would like to get recommendations

on where to purchase the units and what experiences you have with the U-22 vs. the newer units.

Perhaps best to direct email and take discussion off-line so as not to be off-topic for APRS.

thanks...

jeff n5itu

jwallach@drig.com

From dkaplan@pionet.net Tue Dec 19 21:51:49 1995
Received: from ELWOOD.pionet.net (ELWOOD.pionet.net [199.120.116.1]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id VAA22912 for <aprssig@tapir.org>; Tue, 19 Dec 1995 21:51:47 -0600 (CST)
Received: from p5sc.pionet.net by ELWOOD.pionet.net; (5.65v3.0/1.1.8.2/03Oct95-1046AM)
id AA23275; Tue, 19 Dec 1995 22:02:01 -0600
Message-Id: <9512200402.AA23275@ELWOOD.pionet.net>
X-Sender: dkaplan@elwood.pionet.net
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Tue, 19 Dec 1995 21:51:21 -0600
To: aprssig@tapir.org
From: dkaplan@pionet.net (Dave Kaplan)
Subject: Wiring for Apple 2-E & KPC-3

Can someone please provide a wiring diagram to connect an Apple Model 2-E to a KPC-3.

Dave

From bruninga@nadn.navy.mil Tue Dec 19 22:01:03 1995
Received: from greatlakes.nadn.navy.mil (greatlakes.nadn.navy.mil [131.121.9.4]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id WAA23039 for <aprssig@tapir.org>; Tue, 19 Dec 1995 22:01:01 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadn.navy.mil (8.6.12/8.6.12) id XAA00100; Tue, 19 Dec 1995 23:01:27 -0500
Date: Tue, 19 Dec 1995 23:01:26 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
To: aprssig@tapir.org
Subject: AUTOWX Alarms!
Message-ID: <Pine.SUN.3.91.951219225310.77A-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Well, My WX alarms went off the last two nights and I tracked it down to a WX station running the AUTOWX program. This program appears to output APRS formatted WX reports but it has two problems:

1) It uses an @ at the beginning of the packet. That character is reserved

for APRS stations that are ON LINE and CAPABLE of receiving APRS messages.
The AUTOWX program should begin its report with a "/" which indicates
an OFFLINE APRS station, or other device that does NOT ACK messages

2) I called the author of AUTOWX and he told me that the RAIN and PRECIP
values are the RAW U-II counts! Bummer. APRS defies the ON-AIR protocol
for RAIN to be RAIN PER HOUR and PRECIP PER DAY. This means that unless
an AUTOWX operator ZEROES his U-II counters Hourly and Daily, the values
are NOT correct according to the definition.

ALSO as soon as you get 9.99 inches since the last time the operator
ZEROED his counter, then EVERY ALARM IN EVERY APRS station is going to go
off! If you have someone running AUTOWX in your area, be sure he is
zeroing his RAIN counters to avoid these nuisance alarms!

Hopefully the author of AUTOWX will change to the sliding per hour and
per day APRS definition...

|DE WB4APR in Annapolis MD.|

From kc5ejk@onramp.net Wed Dec 20 01:51:01 1995
Received: from mailhost.onramp.net (mailhost.onramp.net [199.1.11.3]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id BAA06453 for <aprssig@tapr.org>; Wed, 20
Dec 1995 01:50:59 -0600 (CST)
Received: from [199.1.11.131] (dal31.onramp.net [199.1.11.131]) by
mailhost.onramp.net (8.6.12/8.6.5) with SMTP id BAA00773 for <aprssig@tapr.org>;
Wed, 20 Dec 1995 01:50:54 -0600
Message-Id: <v02130500acfd701bbe4f@[205.240.209.134]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Wed, 20 Dec 1995 01:50:58 -0600
To: aprssig@tapr.org
From: kc5ejk@onramp.net (Robert Winingham)
Subject: Re: [APRSSID:5393] Wiring for Apple 2-E & KPC-3

>Can someone please provide a wiring diagram to connect an Apple Model 2-E to
>a KPC-3.
>

A tnc is a "Modem" just use a standard Apple or Mac RS-232 modem cable.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

From jean@pubs17.si.com Wed Dec 20 02:47:50 1995
Received: from relay5.UU.NET (relay5.UU.NET [192.48.96.15]) by sys1.tapr.org
(8.7.2/8.7.2) with SMTP id CAA07685 for <aprssig@tapr.org>; Wed, 20 Dec 1995
02:47:48 -0600 (CST)

Received: from uucp3.UU.NET by relay5.UU.NET with SMTP
id QQzuve03633; Tue, 19 Dec 1995 14:44:41 -0500 (EST)
Received: from esseye.UUCP by uucp3.UU.NET with UUCP/MAIL
; Tue, 19 Dec 1995 14:44:42 -0500
Received: from pubs17.si.com by esseye.si.com with esmtp
(Smail3.1.30.13 #37) id m0tS7Qo-0001b9C; Tue, 19 Dec 95 14:10:34 -0500 (EST)
Received: by pubs17.si.com (Smail3.1.30.11 #23)
id m0tS7SR-0002qMC; Tue, 19 Dec 95 14:12 EST
Message-Id: <m0tS7SR-0002qMC@pubs17.si.com>
Date: Tue, 19 Dec 95 14:12 EST
From: jean@pubs17.si.com (Richard G. Jean Jr.)
To: aprssig@tapr.org
Subject: Re: MACAPRS on MAC Plus??

Hello Everyone and Merry XMAS !!!

Question: Will a Mac Plus run MACAPRS? I have the opportunity of
acquiring one of these "Super Cheap" and am wondering if I should
bother....

Thanx In Advance !!!

Rich

From ve4mjm@draco.bison.mb.ca Wed Dec 20 04:14:45 1995
Received: from electra.cc.umanitoba.ca (root@electra.cc.umanitoba.ca
[130.179.16.23]) by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id EAA09811 for
<aprssig@tapr.org>; Wed, 20 Dec 1995 04:14:42 -0600 (CST)
Received: from mira.cc.umanitoba.ca
(uucp@mira.cc.umanitoba.ca [130.179.16.8]) by
electra.cc.umanitoba.ca (8.7.1/8.7.1) with SMTP id EAA19101
for <aprssig@tapr.org>; Wed, 20 Dec 1995 04:14:38 -0600 (CST)
Received: by mira.cc.umanitoba.ca (5.x/SMI-SVR4)
id AA29899; Wed, 20 Dec 1995 04:14:33 -0600
>Received: by bison.mb.ca (Smail3.1.28.1 #14)
id m0tSBz1-0005mPC; Wed, 20 Dec 95 00:02 GMT
Received: from bison by mira.cc.umanitoba.ca; Wed, 20 Dec 1995 04:14 CST
Received: by bison.mb.ca (Smail3.1.28.1 #14)
id m0tSBz1-0005mPC; Wed, 20 Dec 95 00:02 GMT
Received: by draco.bison.mb.ca id AA06448
(5.67b/IDA-1.5 for aprssig@tapr.org); Wed, 20 Dec 1995 00:11:16 -0600
Date: Wed, 20 Dec 1995 00:11:16 -0600 (CST)
From: Michael Markmann <ve4mjm@draco.bison.mb.ca>
To: aprssig@tapr.org
Subject: Re: [APRSSIG:5216] MAPLISTS and Bill's challenge!
In-Reply-To: <Pine.SUN.3.91.951215185948.24450B-100000@greatlakes>
Message-Id: <Pine.LNX.3.91.951220000755.5064A-100000@draco.bison.mb.ca>
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 15 Dec 1995, Bob Bruninga wrote:

> For someone that wants a nice little programming challenge, we need to
> take the code in MKMAPLST.bas and modify it so that it not only scans all
> MAPS and builds a maplist,
>
> BUT THAT IT BUILDS A CORRECT ONE!

Ok I'll take the bait and see what I can do.

>
> This should be simple. Just scan through all the maps collecting their

Simple?! :-) Cum'on Bob! You've been programming how long now?!!

<g>

Michael

--

Michael Markmann VE4MJM |
ve4mjm@draco.bison.mb.ca (Internet) | ERROR! REALITY.SYS Corrupted!
VE4MJM@VE4KV.#WPG.MB.CAN.NA (AX.25) | Reboot UNIVERSE.EXE!
Hobbies: Electronics, Amateur Radio, Computers, Model Trains, ...
Too Many to Choose From!!! Arrrrrrggghhhhh!

From jbc5@po.cwru.edu Wed Dec 20 07:23:14 1995
Received: from slc5.INS.CWRU.Edu (slc5.INS.CWRU.Edu [129.22.8.107]) by
sys1.tapir.org (8.7.2/8.7.2) with SMTP id HAA15108 for <aprssig@tapir.org>; Wed, 20
Dec 1995 07:23:10 -0600 (CST)
Received: from jbc5-ra.F-REMOTE.CWRU.Edu (jbc5-ra.F-REMOTE.CWRU.Edu
[129.22.125.6]) by slc5.INS.CWRU.Edu with SMTP (8.6.12+cwru/CWRU-2.1-freenet-gw)
id IAA15016; Wed, 20 Dec 1995 08:23:04 -0500 (from jbc5@po.cwru.edu for
<aprssig@tapir.org>)
Message-Id: <199512201323.IAA15016@slc5.INS.CWRU.Edu>
Date: Wed, 20 Dec 1995 08:23:04 -0500
X-Sender: jbc5@pop.cwru.edu
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapir.org
From: jbc5@po.cwru.edu (Joe Carter)
Subject: Help! Pico HSP

Help! My PicoPacket, (2 serial port model, release 3.2.9.2,
25 Nov, 95) has lost its ability to update via HSP. I can
still read via ELO and LOC, but F8 and POSrate just get
"HSP Port Timeout" message. Have double checked all the
cables and GPS (Garmin 45), and Pico unit otherwise working
properly. It was working when I first hooked it up on the
bench but when I went to go mobile I noticed the problem.
Am back on the bench still no luck. I am registered for
GPS and have Alt-S my number. Any thoughts or help greatly
appreciated.

Joe Carter, AA8SF
jbc5@po.cwru.edu
aa8sf@wa8bxn.neoh.oh.usa

From jbc5@po.cwru.edu Wed Dec 20 07:50:18 1995
Received: from slc5.INS.CWRU.Edu (slc5.INS.CWRU.Edu [129.22.8.107]) by
sys1.tapir.org (8.7.2/8.7.2) with SMTP id HAA16261 for <aprssig@tapir.org>; Wed, 20
Dec 1995 07:50:15 -0600 (CST)
Received: from jbc5-ra.F-REMOTE.CWRU.Edu (jbc5-ra.F-REMOTE.CWRU.Edu
[129.22.125.6]) by slc5.INS.CWRU.Edu with SMTP (8.6.12+cwru/CWRU-2.1-freenet-gw)
id IAA15843; Wed, 20 Dec 1995 08:50:11 -0500 (from jbc5@po.cwru.edu for
<aprssig@tapir.org>)
Message-Id: <199512201350.IAA15843@slc5.INS.CWRU.Edu>
Date: Wed, 20 Dec 1995 08:50:11 -0500
X-Sender: jbc5@pop.cwru.edu
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapir.org
From: jbc5@po.cwru.edu (Joe Carter)
Subject: Pico problem solved

The fine folks at Paccom solved my problem. I can not
say enough nice things about them and their support.
It seems the PIC command has been changed and with
7.4e it is not being set to CntrlE but is remaining
null. Just set Pic =CntrlE and it works!
Tnx to all.

Joe Carter AA8SF
jbc5@po.cwru.edu
aa8sf@wa8bxn.neoh.oh.usa

From crpl.cedar-rapids.lib.ia.us@tapir.org Wed Dec 20 07:55:06 1995
Received: from CRPL.CEDAR-RAPIDS.LIB.IA.US (crpl.cedar-rapids.lib.ia.us
[198.134.138.1]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id HAA16393 for
<aprssig@tapir.org>; Wed, 20 Dec 1995 07:55:04 -0600 (CST)
Message-Id: <199512201355.HAA16393@sys1.tapir.org>
Received: from barrettd ([198.134.138.105]) by CRPL.CEDAR-RAPIDS.LIB.IA.US with
SMTP;
Wed, 20 Dec 1995 7:54:53 -0600 (CST)
X-Sender: barrettd@crpl.cedar-rapids.lib.ia.us
X-Mailer: Windows Eudora Version 1.4.4
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Wed, 20 Dec 1995 07:54:37 -0600
To: aprssig@tapir.org
From: crpl.cedar-rapids.lib.ia.us@tapir.org (David Barrett)
Subject: Re: [APRSSIG:5343] Re: U-2000 serial pinout

>On Mon, 18 Dec 1995 18:57:08 -0600 (CST) you wrote:

>

>>Well, Peet could have just printed the info in the book instead of making
>>everyone jump through the same hoops. So what's the pinout now? My guess

would take a while before it would talk to the tnc, that works ok now.
It ran all last nite without a glitch.
I am using a Pentium 60mhz, with four 16550 serial ports, and of
course, I can only run APRS on com 1 and 2 because of the IRQ
addresses of com 3 and 4 are irq 5 and irq 11, which are not
supported by APRS.
My Mouse will only work on com 1 or 2, which leaves APRS to TNC
on the other, now how can I run the wx station on com 3 or 4 with
APRS, are the driver's in the works?
Will check it out as soon as my UII with U2000 upgrade arrives,
Best of Season's Greetings to the SIG

Regards, Ron ... 73 de Ron
Internet: rkramer@cdx.net (Ron Kramer)
Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)

From davidc@tbcnet.com Wed Dec 20 08:30:03 1995
Received: from tbc2.tbcnet.com (root@tbc2.tbcnet.com [205.199.1.5]) by
sys1.tapir.org (8.7.2/8.7.2) with SMTP id IAA17515 for <aprssig@tapir.org>; Wed, 20
Dec 1995 08:29:59 -0600 (CST)
Received: from [205.199.1.163] (davidc.tbcnet.com [205.199.1.163]) by
tbc2.tbcnet.com (8.6.12/8.6.12) with SMTP id IAA27010 for <aprssig@tapir.org>; Wed,
20 Dec 1995 08:29:57 -0600
Date: Wed, 20 Dec 1995 08:29:57 -0600
Message-Id: <199512201429.IAA27010@tbc2.tbcnet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: aprssig@tapir.org
From: davidc@tbcnet.com (David Chesser)
Subject: Re: [APRSSIG:5396] Re: MACAPRS on MAC Plus??

A MacPlus running system 7.0 and 4 megs of ram will run MacAPRS if the
airport and zip code data wont be used.

From bruninga@nadn.navy.mil Wed Dec 20 08:35:16 1995
Received: from greatlakes.nadn.navy.mil (greatlakes.nadn.navy.mil [131.121.9.4])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id IAA18226 for <aprssig@tapir.org>; Wed,
20 Dec 1995 08:35:13 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadn.navy.mil (8.6.12/8.6.12) id
JAA02448; Wed, 20 Dec 1995 09:35:37 -0500
Date: Wed, 20 Dec 1995 09:35:37 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:5400] Re: U-2000 serial pinout
In-Reply-To: <199512201355.HAA16393@sys1.tapir.org>
Message-ID: <Pine.SUN.3.91.951220093422.2179A-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 20 Dec 1995, David Barrett wrote:

> I saw the item in the manual about the H port so I'm not about to fry the

> unit! I decided to just order the damn cable from Peet along with the data
> logger software. I will determine the pinouts for the U-2000 rs232 cable and
> post the layout of the cable here for any that might be interested. Thanks
> anyway to all

WB4APR REPLY COMMENT:

The U-2000 pin out is the same as the U-II. See my WX.txt The only diff
is that you do NOT need the pull down resistor...

From gerry@cs.tamu.edu Wed Dec 20 09:19:12 1995
Received: from cs.tamu.edu (clavin.cs.tamu.edu [128.194.130.106]) by sys1.tapir.org
(8.7.2/8.7.2) with SMTP id JAA20191 for <aprssig@tapir.org>; Wed, 20 Dec 1995
09:19:08 -0600 (CST)
Received: from solar.cs.tamu.edu (2961@solar.cs.tamu.edu [128.194.132.1]) by
cs.tamu.edu (8.6.10/8.6.4) with ESMTP id JAA28473 for <aprssig@tapir.org>; Wed, 20
Dec 1995 09:18:32 -0600
From: Gerald J Creager <gerry@cs.tamu.edu>
Received: (gerry@localhost) by solar.cs.tamu.edu (8.6.10/8.6.4) id JAA22043 for
aprssig@tapir.org; Wed, 20 Dec 1995 09:18:18 -0600
Message-Id: <199512201518.JAA22043@solar.cs.tamu.edu>
Subject: Re: [APRSSIG:5373] Re: GPS and missiles
To: aprssig@tapir.org
Date: Wed, 20 Dec 1995 09:18:16 -0600 (CST)
In-Reply-To: <199512192013.MAA04521@cellmail.cellnet.com> from "Jim DeLoach" at
Dec 19, 95 02:26:45 pm
X-Mailer: ELM [version 2.4 PL24]
Content-Type: text

Jim DeLoach sez:

>
> Look folks, the first nuclear bomb to go off in the United States will
> probably ride in on a donkey cart!

See Tom Clancy's "The Sum of All Fears"

> The real issue is that our government needs to realize that the GPS system
> is both a military AND a commercial resource crucial to our nations well
> being. SA is merely spawning a differential-correction industry (companies
> like DCI, and organizations like the Coast Guard) that aren't really
> necessary, and I doubt it is contributing much to our security. My guess is
> that should ICBMs get launched, GPS would totally shut off or otherwise make
> itself useless to hostile forces.

More than likely, if we have a sufficient launch warning, we'll shut down a
lot more than just the GPS birds, to diminish the flash-damage from an
airburst. Generally, if the launch vehicle is ballistic, I'm not too worried
about a GPS-guided terminal phase. I'm just plain worried. An airburst over
Houston would complicate my life needlessly, although I doubt a minor power
would target College Station and complicate it significantly...

The various Differential sources are, in fact, needed to improve position data

over that provided by Standard Positioning Service for precision applications. Surveying, which uses L1 and L2, requires use of a base station and either real time (kinematic) updates or post-processing to achieve sub-cm precision. Similarly, the Coast Guard and Corps of Engineers have been experimenting with RTK navigation-aided ship handling in restricted channels. Neither of these, nor a host of other applications can be achieved using SPS or Precision Position Service natively. And "Why not," you ask? Simple answer. The satellite precise ephemeris sent by the Space Vehicles (I sure hope W3IWI isn't looking:-) is accurate enough to place the location of the satellite within (about) a 10 meter spheroid at any given time. Assuming, for the nonce, that Selective Availability is OFF, and minimizing errors in the various onboard clocks with regard to the master reference clock, you have a potential pseudorange error, off the top, of about 17 meters (2-sigma). Signals travelling through the ionosphere and stratosphere are subject to some induced delay. While this is modelled, and the model data are updated periodically in the Broadcast Message, the fact is the model is not perfect, and compensation based on it is prone to some error.

Use of several satellites to determine position, and use of a Least Squares Estimator to compare various solutions, as well as smoothing based on carrier phase and code phase data allow some increase accuracy of the solution. SPS uses a shorter sequence of Pseudo Random Numbers in their system than PPS. This, too, contributes to less precision in determining a fix. Oh... And I forgot to mention multipath. This bugaboo can nail both SPS and PPS systems. On our surveying gear, we use a .7 meter (diameter) groundplane to minimize the effect of reflections and multipath, and attempt to set the antenna as high as possible (a couple of meters) to reduce the effects of local reflections. Trimble recommends, as well, that vehicles be restricted to no closer than 100 meters when a precision point is being taken. On a good day, using L1 only without L2 code or carrier phase correlation, discounting most of the ionospheric delay and discounting multipath, you can expect about a 10 meter diameter ellipsoid of error for SPS and about a 3 meter ellipsoid for PPS.

Real time correction can occur at several levels. For discussion, I'll talk about the two I spend most of my time with: RTCM ("Mapping Grade") correction was originally developed for harbor navigation, with aviation industry input, and will improve SPS and PPS by about an order of magnitude (100 meter [a BAD day] -> 10 meter; 10 meter -> 1 meter or so...) and RTK, which most of the cheap GPS receivers cannot handle, which is able to allow significant submeter resolution (we can usually reproduce 2 cm error ellipsoids around here).

RTCM (Radio Technical Committee for Maritime Operations) corrections are based on using a base station at a known point, and assume, typically, an L1/SPS-grade receiver. The receiver compares the pseudorange (apparent range of the receiver to the spacecraft) based on timing signals with its calculation of the spacecraft's anticipated pseudorange based on the broadcast ephemeris (sent by the individual birds), and issues a set of corrections. It also sends timing (Epoch) data and satellite health data so the receivers can error out a satellite if it's unhealthy. This, of course, demands that the base station and the roving station receiving the corrections be looking at the same satellites. If they're not, then only limited correction can occur. FURTHER, as you get farther from the base station, the precision of the

correction diminishes. Thus, a base station 350 km away may not give much improvement over an autonomous position fix.

> On a related note, isn't it about time GPS users who are not US tax payers
> contributed to its upkeep? Is this already happening? How about we shut
> the birds down from time to time over other parts of the world till some
> other well to do nations pony-up?

No. We have national interests ("military") in a lot of those areas. If we turn off SPS their PLGRs stop working, too. And, it'd be pretty irresponsible to turn off a mode we turned on simply to try and strongarm some change from the rest of the world. What we're doing, instead, is gaining access to the GLOSNASS system the Russians have launched and maintain, and are continuing to do so at no cost to the world. Newer receivers are starting to come out that are capable of receiving both systems, and either select the best fix, or integrate the two. So, tell me... you're flying your light twin over Europe, with your Garmin GPS-150 onboard, meeting the applicable FARs for enroute navigation, and complying with the appropriate ATC regulations for the airspace you're in (they allow enroute navigation by GPS too) when the lights go out... Once you've started using it, it's no fun to have to go back to VORs. And if you're in IFR conditions, and your situation changes like that, you're suddenly in a significantly increased-workload environment. That's no fun.

No, thank you, I don't think strong-arm tactics are appropriate here.

Gerry N5JXS
n5jxs@tamu.edu

From cdavidso@hemisphere.neocomm.net Wed Dec 20 09:54:06 1995
Received: from hemisphere.neocomm.net (root@hemisphere.neocomm.net [205.160.234.1]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id JAA21407 for <aprssig@tapr.org>; Wed, 20 Dec 1995 09:53:57 -0600 (CST)
Received: from Axton (ppp12.neocomm.net [205.160.234.28]) by hemisphere.neocomm.net (8.6.11/8.6.9) with SMTP id KAA29214 for <aprssig@tapr.org>; Wed, 20 Dec 1995 10:53:59 -0500
Message-Id: <199512201553.KAA29214@hemisphere.neocomm.net>
Comments: Authenticated sender is <cdavidso@neocomm.net>
From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
To: aprssig@tapr.org
Date: Wed, 20 Dec 1995 10:52:26 +0000
Subject: Paint Shop Pro (screen grabber/graphics prgrm)/win
Reply-to: cdavidso@hemisphere.neocomm.net
Priority: normal
X-mailer: Pegasus Mail for Windows (v2.01)

Here is a nice shareware program for manipulating graphics of all types. It allows you to capture a window or a mouse selected area of any windowed program (Hit <alt><enter> to put APRS into a window). The captured file is a .bmp but can be saved as one of 30 some different formats, mac format too. You can view pictures of some 30 different formats, resize, change color count, much better program than Paint Brush/win. However it does not let you draw and write on the

pictures, you still will need Paint Brush for this.
download 30 day trail from:
<http://www.jasc.com/pspd1.html>
<ftp://jasc.com/pub/psp311.zip>
<ftp://winternat.com/users/jasc/psp311.zip>

Merry Christmas to ALL..!!!!
cdavidso@neocomm.net
<http://www.neocomm.net/~cdavidso/>
Charles W. Davidson
Route 1, Box 139-H
Axton, VA 24540-9626
WB4PAN@WB4QOJ.VA.USA.NOAM

From jim.deloach@cellnet.com Wed Dec 20 10:47:45 1995
Received: from smoke-2.cellnet.com (smoke-1.cellnet.com [148.80.1.2]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id KAA23315 for <aprssig@tapr.org>; Wed, 20
Dec 1995 10:47:42 -0600 (CST)
Received: (from uucp@localhost) by smoke-2.cellnet.com (8.6.12/8.6.9) id IAA11781;
Wed, 20 Dec 1995 08:47:40 -0800
Received: from cellmail.cellnet.com(148.80.2.20) by smoke.cellnet.com via smap
(V1.3mjr)
id sma011778; Wed Dec 20 08:46:48 1995
Received: from deloachpc (deloachpc.cellnet.com [148.80.9.60]) by
cellmail.cellnet.com (8.6.12/8.6.9) with SMTP id IAA22230; Wed, 20 Dec 1995
08:46:47 -0800
Message-Id: <199512201646.IAA22230@cellmail.cellnet.com>
X-Sender: jdd@mailhost
X-Mailer: Windows Eudora Pro Version 2.1.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Wed, 20 Dec 1995 08:40:15 -0800
To: tweedy@pc.gcs.litton.com
From: Jim DeLoach <jim.deloach@cellnet.com>
Subject: Re: Error Ellipses
Cc: aprssig@tapr.org

Hi Mike,

Thanks for you response concerning GPS error ellipses. Your comments bring
to mind still more questions:

(1)

I presume the precision provided by the GPS receiver is DYNAMIC, and changes
as a function of which birds are in view, how many obstructions are around
me as I drive around, etc. Will the GPS receivers' "HDOP" reflect these
factors and change accordingly?

(2)

Is it true that the errors will tend to be evenly distributed between the
x-axis (east-west) and y-axis (north-south)? Is it ever the case that the
x-axis error is much less then the y-axis (or visa versa), and would the GPS
receiver be able to predict this?

(3)

I am investigating both DCI and the Coast Guard beacon receivers for differential correction information. Why do you say the Coast Guard correction information provides accuracies "within tens of meters" while DCI can get into the meter range? Does this have to do with how far one is from the reference receiver? What if the reference receiver is close?

I would appreciate any input on this.

Thanks for the help!

73s

Jim, WU0I

At 07:43 PM 12/19/95 -0600, "TWEEDY, MIKE WH:2453"

<twedy@pc.gcs.litton.com> wrote:

>Jim-

>For standard SPS service (i.e. L1 only), the reported accuracy ellipsoid
>as I recall is 100 meters horizontal, 168 meters vertical, 2-sigma (95%
>confidence). However, you stated that you are currently using a Garmin
>GPS-75 with commercially provided differential corrections. In that case
>you should defer to the claimed accuracies offered for the type of
>service. DCI Corrections and Acqpoint can provide accuracies within a
>few meters to sub-meter levels depending on the type of subscription
>service you choose. The USCG differential beacon stations are good to
>within tens of meters and is a free service but requires the purchase of
>a beacon receiver.

>

>As far as the NMEA-0183 standard, the only NMEA sentences I found that
>might help give you a "feel" for absolute accuracy were \$GPGGA and
>\$GPGSA. \$GPGGA provides a value for HDOP (horizontal dilution of
>precision) and also provides the time in seconds since the last SC104
>Type 1 or Type 9 update. \$GPGSA provides the PRN numbers of all the
>satellites used in the navigation solution plus provides values for HDOP,
>VDOP (vertical DOP), and PDOP (position DOP). [Info only--PDOP is the
>root sum square or RSS of HDOP and VDOP]. In general, a PDOP of 3 or
>less is desirable and indicates acceptable satellite geometry. PDOP can
>increase if certain satellites are blocked from view forcing a navigation
>solution from less optimally positioned satellites. Since I do not have
>a Garmin GPS-75, I do not know if any of the above information may be
>helpful.

>

>73's de Mike KA6SPT

>

>

>

From jleonard@tbcnet.com Wed Dec 20 11:29:11 1995

Received: from tbc2.tbcnet.com (jleonard@tbc2.tbcnet.com [205.199.1.5]) by

sys1.tapir.org (8.7.2/8.7.2) with SMTP id LAA24797 for <aprssig@tapir.org>; Wed, 20 Dec 1995 11:29:05 -0600 (CST)
Received: (from jleonard@localhost) by tbc2.tbcnet.com (8.6.12/8.6.12) id LAA31183; Wed, 20 Dec 1995 11:29:01 -0600
Date: Wed, 20 Dec 1995 11:29:00 -0600 (CST)
From: Barry Leonard <jleonard@tbcnet.com>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:5404] Re: GPS and missiles
In-Reply-To: <199512201518.JAA22043@solar.cs.tamu.edu>
Message-ID: <Pine.LNX.3.91.951220112508.29349A-100000@tbc2.tbcnet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

let's see...

how did I say I was going to handle NON-APRS subjects on this SIG?

Oh, I remember now!

DELETE!

(and there it goes, into the trashcan.)

Barry Leonard
N9VJQ
jleonard@tbcnet.com

From laborde@kilroy.jpl.nasa.gov Wed Dec 20 11:46:43 1995
Received: from kilroy (kilroy.jpl.nasa.gov [128.149.63.2]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id LAA25365 for <aprssig@tapir.org>; Wed, 20 Dec 1995 11:46:41 -0600 (CST)
Received: from [128.149.100.84] (kd6msm.jpl.nasa.gov [128.149.100.84]) by kilroy (8.6.10/8.6.6) with SMTP id JAA02134 for <aprssig@tapir.org>; Wed, 20 Dec 1995 09:46:24 -0800
Message-Id: <v01510100acfd703245d@[128.149.100.84]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Wed, 20 Dec 1995 09:46:34 -0800
To: aprssig@tapir.org
From: laborde@kilroy.jpl.nasa.gov (Gregory R. LaBorde)
Subject: Re: [APRSSIG:5386] Re: enough is enough

>I agree, the missile issue specially, what does it have to do with APRS
>anyway, not that i read it anymore (Just hit the delete key) but see hardly
>anything anymore directly related the APRS.

Actually it has helped my understanding of how GPS works a bit.

-Greg

--

Gregory R. LaBorde - KD6MSM

| Internet: laborde@kilroy.jpl.nasa.gov

Jet Propulsion Laboratory | AMPRNet : kd6msm@jpl-gw.w6vio.ampr.org
Systems Engineering - Galileo OET | Packet : KD6MSM@W6VIO.#SOCA.CA.USA.NA
M/S 264-805 4800 Oak Grove Drive | Phone : (818) 393-1107
Pasadena, CA 91109 |

From bruninga@nadm.navy.mil Wed Dec 20 12:09:35 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id MAA26400 for <aprssig@tapr.org>; Wed,
20 Dec 1995 12:09:31 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
NAA06016; Wed, 20 Dec 1995 13:09:48 -0500
Date: Wed, 20 Dec 1995 13:09:47 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: Bruce Taylor <blt+@CMU.EDU>
cc: aprssig@tapr.org
Subject: GPS Moving Map shareware
In-Reply-To: <okq2Npu00iWSE1zFUH@andrew.cmu.edu>
Message-ID: <Pine.SUN.3.91.951220130411.5891A-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

RE: APRS on CB, Marine band, and other channels

It depends on who's lawyer you talk to, hi hi.

DIGITAL DATA transmission is prohibited on CB

Selective calling, using tones for the purpose of establishing and/or
maintaining communications IS permitted. Tones cannot last LONGER than
15 seconds.

I talked to the FCC, and there is NO STANDARD for "selective calling"
Almost all selective calling these days use digital formats and they
are not considered DIGITAL DATA in the prohibited sense...

ERGO, its legal in my eyes...

From lmkeeran@ilstu.edu Wed Dec 20 12:10:52 1995
Received: from aix.nsystu.edu (root@aix.nsystu.edu [138.87.7.200]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id MAA26457 for <aprssig@tapr.org>; Wed, 20
Dec 1995 12:10:48 -0600 (CST)
Received: from i0517009.adm.ilstu.edu by aix.nsystu.edu (AIX 3.2/UCB
5.64/4.03)
id AA38529; Wed, 20 Dec 1995 12:10:03 -0600
X-Sender: lmkeeran@138.87.1.2
Message-Id: <v02120d06acfe01d9721c@[138.87.2.109]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Wed, 20 Dec 1995 12:11:28 -0600

>format called RTCM-104. Most GPS receivers will accept that serial data
>stream and use the data to IMPROVE their position SIGNIFICANTLY! But
>these Differential correction engines cost THOUSANDS of dollars and
>require a separate serial data link to the MOBILE.

>

>CHEAP SUBSTITUTE: If you have TWO identical GPS units (using the same
>software algorithms), and the antennas see the same satellites, then
>they SHOULD usually give the same posit. Hook one to your BASE STATION
>APRS and the other in your mobile. Now, since the base station KNOWS
>its exact posit, it simply calculates the offset and subtracts that from
>the mobile's posit on every packet. The mobile is therefore plotted
>to the same accuracy that you know where YOUR BASE station is.

>* YOU can figure out exactly where your basestation is by simply

> averaging your GPS posit over several hours(or days)

>* This only works if you are using the same model GPS for the mobile

> and base...

>* It only works if the units are using the SAME SATELLITES

>

>THIS MODE IS CALLED PSEUDO DIFFERENTIAL and has been in the APRS version
>sold via PacComm for commercial applications for over a year...

>

>

>-----
>|DE WB4APR in Annapolis MD.|

>-----

>

>

Bob can you fill us in on how your APRS DGPS works, I can not find it
in the HELP.TXT file under ALT S....

I see it there ALT S, then GPS, then it shows DGPS

also on the command line I see dgps go to DGPS when

I select it , but nadaing happens...

I tried GPS connected by HSP switch, on separate com port,
turning GPS off and on etc. but without any documentation
that I can see (maybe I missed it) I can not figure out how
you implement it.

Also is it possible to run DGPS, GPS, WX, and DF all at the same time
or do I need individual TNC's and computers for each??

tnx in advance.

Regards, Ron ...

73 de Ron

Internet: rkramer@cdx.net (Ron Kramer)

Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)

From hammock@tis.telos.com Wed Dec 20 12:44:31 1995

Received: from tis.telos.com (tis.telos.com [198.116.7.53]) by sys1.tapir.org
(8.7.2/8.7.2) with SMTP id MAA27689 for <aprssig@tapir.org>; Wed, 20 Dec 1995
12:44:29 -0600 (CST)

Received: (hammock@localhost) by tis.telos.com (8.6.12/8.6.4) id NAA17203; Wed, 20
Dec 1995 13:46:13 -0500

Date: Wed, 20 Dec 1995 13:46:13 -0500 (EST)

From: Randy Hammock <hammock@tis.telos.com>
To: aprssig@tapr.org
Subject: Altered PK-88 TOne setting
Message-ID: <Pine.SOL.3.91.951220131859.17072A-1000000@zentropa>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I know this appeared in the discussion some months back but I didn't save a copy of the solution. The problem is that APRS sets the PK-88 TOne to 2 when it needs to be set to 3. The question is, which of the .TNC files needs to be modified to contain the necessary "TOne 3" command, INITAEA.TNC, RESTORE.TNC or both? Or, should a different TNC be specified at startup?

Just last night I discovered the altered TOne setting after trying to figure out why my PK-88 had quit working after trying to bring up APRS for the first time this past Saturday. Pretty frustrating after having repaired my radio which had defective crimp in one of the internal wiring harnesses from the factory which caused the audio to come and go (go mostly). Seemed like everything wanted to keep me from running packet.

--

| | |
|---------------------------------------|-------------------------|
| Randy Hammock KC6HUR | Randy.Hammock@Telos.com |
| Telos Information Systems - EDOS | hammock@gmd.trw.com |
| 7474 Greenway Center Drive; Suite 400 | Voice: +1 301 507-5904 |
| Greenbelt, Maryland 20770 | FAX: +1 301 507-5892 |

From jim.deloach@cellnet.com Wed Dec 20 12:46:55 1995
Received: from smoke-2.cellnet.com (smoke-1.cellnet.com [148.80.1.2]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id MAA27730 for <aprssig@tapr.org>; Wed, 20 Dec 1995 12:46:52 -0600 (CST)
Received: (from uucp@localhost) by smoke-2.cellnet.com (8.6.12/8.6.9) id KAA12754 for <aprssig@tapr.org>; Wed, 20 Dec 1995 10:46:48 -0800
Received: from cellmail.cellnet.com(148.80.2.20) by smoke.cellnet.com via smap (V1.3mjr)
id sma012730; Wed Dec 20 10:45:54 1995
Received: from deloachpc (deloachpc.cellnet.com [148.80.9.60]) by cellmail.cellnet.com (8.6.12/8.6.9) with SMTP id KAA02245 for <aprssig@tapr.org>; Wed, 20 Dec 1995 10:45:52 -0800
Message-Id: <199512201845.KAA02245@cellmail.cellnet.com>
X-Sender: jdd@mailhost
X-Mailer: Windows Eudora Pro Version 2.1.2
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Wed, 20 Dec 1995 10:39:20 -0800
To: aprssig@tapr.org
From: Jim DeLoach <jim.deloach@cellnet.com>
Subject: Coast Guard beacon receiver designs for differential data?

Does anybody know of any published low-cost Coast Guard beacon receiver designs in the ham or hobby press? These would be a nice accuracy add-on to all the low-cost GPS users out there.

My understanding is that these transmissions are on long-wave (~140 kHz or so?) using an MSK modulation at 100 baud. Is this right? What do the signal strengths look like, and would this be a particularly difficult design?

Would there be any problem with APRS compatibility?

73s all,

Jim, WU0I

p.s. Comercial units seem to start at ~\$400. and go up into the thousands. Is there really that much value in these units?

From cdavidso@hemisphere.neocomm.net Wed Dec 20 13:39:26 1995
Received: from hemisphere.neocomm.net (root@hemisphere.neocomm.net [205.160.234.1]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id NAA29935 for <aprssig@tapir.org>; Wed, 20 Dec 1995 13:39:19 -0600 (CST)
Received: from Axton (ppp0.neocomm.net [205.160.234.16]) by hemisphere.neocomm.net (8.6.11/8.6.9) with SMTP id OAA00665 for <aprssig@tapir.org>; Wed, 20 Dec 1995 14:39:26 -0500
Message-Id: <199512201939.OAA00665@hemisphere.neocomm.net>
Comments: Authenticated sender is <cdavidso@neocomm.net>
From: "Charles W. Davidson" <cdavidso@hemisphere.neocomm.net>
To: aprssig@tapir.org
Date: Wed, 20 Dec 1995 14:37:51 +0000
Subject: RE-Paint Shop Pro graphics program
Reply-to: cdavidso@hemisphere.neocomm.net
Priority: normal
X-mailer: Pegasus Mail for Windows (v2.01)

Correction I just dnloaded version 311 and it does have the paint and write on the screen tools.

cdavidso@neocomm.net
<http://www.neocomm.net/~cdavidso/>
Charles W. Davidson
Route 1, Box 139-H
Axton, VA 24540-9626
WB4PAN@WB4Q0J.VA.USA.NOAM

From bruninga@nadm.navy.mil Wed Dec 20 14:02:49 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id OAA01000 for <aprssig@tapir.org>; Wed, 20 Dec 1995 14:02:46 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id PAA08593; Wed, 20 Dec 1995 15:03:09 -0500
Date: Wed, 20 Dec 1995 15:03:06 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:5411] Re: Cheap Differential
In-Reply-To: <30d8530f.40598034@mail.cdx.net>
Message-ID: <Pine.SUN.3.91.951220144812.7792A-100000@greatlakes>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 20 Dec 1995, Ronald Kramer wrote:

> Bob can you fill us in on how your APRS DGPS works, I can not find it
> in the HELP.TXT file under ALT S....
> Also is it possible to run DGPS, GPS, WX, and DF all at the same time
> or do I need individual TNC's and computers for each??

WB4APR REPLY COMMENT:

| | |
|---|-------------|
| Only the GPS can share the HSP with the TNC. | See GPS.txt |
| The WX needs its own port at 2400 baud | See WX.txt |
| The DF can share a single port with the TNC (and HSP-GPS) | See DF.txt |

DGPS in APRS, simply means that IF SOMEONE on your local net is transmitting RTCM-104 via PACKETS then APRS will pass those out the GPS comm port. If you have wired the OOUTPUT of that COM port to your GPS differenential INPUT, then your GPS will be happy.

NOTE: Unless the DGPS station ransmits at least one pacekt every 30 seconds, the data is not worth much. That sure ties up a channel. If you are going to spend hte \$5,000 for a DGPS station, then send that data via packet on a DEDICATED CHANNEL. Then all mobiles operate split and LISTEN on the DGPS channel, and XMT on the APRS channel...

The PSEUDO differential correction where APRS corrects all ON-AIR posits based on the offset of its OWN attached GPS is only in the commercial version of APRS being sold by PacComm.

From bruninga@nadm.navy.mil Wed Dec 20 14:07:17 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id 0AA01414 for <aprssig@tapir.org>; Wed,
20 Dec 1995 14:07:14 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
PAA08984; Wed, 20 Dec 1995 15:07:37 -0500
Date: Wed, 20 Dec 1995 15:07:37 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapir.org
Subject: Re: [APRSSIG:5412] Altered PK-88 TOne setting
In-Reply-To: <Pine.SOL.3.91.951220131859.17072A-100000@zentropa>
Message-ID: <Pine.SUN.3.91.951220150430.7792B-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

> a copy of the solution. The problem is that APRS sets the PK-88 TOne to 2
> when it needs to be set to 3. The question is, which of the .TNC files
> needs to be modified to contain the necessary "TOne 3" command,
> INITAEA.TNC, RESTORE.TNC or both? Or, should a different TNC be spcified

WB4APR REPLY COMMENT:

I cannot fix this problem, until someone sits down and uses a dumb terminal program to send EACH of the commands to their PK-88 that are in INITAEA.tnc (or INITTAPR.tnc) and tells me WHICH of my commands is causing the PK-88 to switch TONES...

Please someone with a PK-88 do this..... Thanks.

I think the Pk-88 is TAPR compatible, so tell APRS you are using a TAPR TNC, and then APRS will use the COMMANDS in the INITTAPR.TNC file...

From bruninga@nadm.navy.mil Wed Dec 20 15:00:42 1995
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id PAA03613 for <aprssig@tapr.org>; Wed,
20 Dec 1995 15:00:37 -0600 (CST)
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id
QAA09690; Wed, 20 Dec 1995 16:01:02 -0500
Date: Wed, 20 Dec 1995 16:01:01 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
To: aprssig@tapr.org
cc: Asst Prof Carl E Wick <wick@guam.nadm.navy.mil>,
clement@guam.nadm.navy.mil
Subject: APRS MIM Telemetry Module
Message-ID: <Pine.SUN.3.91.951220150757.7792C-100000@greatlakes>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

The Micro Interface Module (MIM) is a complete telemetry and packet transmitter on a chip. It can be considered to be the TRANSMIT side of a TNC which sends out the following packets on a user defined schedule:

- 1) A FIXED Beacon text
- 2) A telemetry packet with 5 analog values and 8 individual BIT values
- 3) A position packet if a GPS card is attached
- 4) An optional CW ID.

We just sent out the art work and should have a handful of MIM cards available by the beginning of January. Here's what we know so far:

**** PRELIMINARY INFO ONLY ***** SUBJECT TO CHANGE *****

SIZE: 1.5 inch by 3.25 by 0.5 inches (prototype)
Much smaller in production using surface mount...

| | | | |
|---------|----------------------|----------|-----------------------|
| INPUTS: | Five Analog | OUTPUTS: | AX.25 packets (audio) |
| | Eight BIT inputs | | PTT |
| | Vin 8 to 40v (15 Ma) | | 5 volts regulated |
| | RS-232 (NMEA) in | | RS-232 out |
| | Rcv DCD input | | |

FIELD PROGRAMMABLE via serial port:

- * Callsign & SSID
- * UNPROTO path
- * BEACON Text

- * BEACON period 5 secs to 21 minutes
- * POSIT period ditto
- * TELEMETRY period ditto

FUTURE OPTIONS: * LOW POWER Sleep mode for extended timing periods
 Less than 0.015 ma
 * Extended timing periods
 * Timed OUTPUT pin for powering up GPS

COST: \$89 intro price plus shipping and handling
 Quantity discounts and OEM licensing will be available

***** PERLIMINARY INFO ONLY ***** SUBJECT TO CHANGE! **** hi hi

From KE4PNJ@aol.com Wed Dec 20 15:06:27 1995
 Received: from mail06.mail.aol.com (mail06.mail.aol.com [152.163.172.108]) by
 sys1.tapir.org (8.7.2/8.7.2) with SMTP id PAA04199 for <aprssig@tapir.org>; Wed, 20
 Dec 1995 15:06:21 -0600 (CST)
 From: KE4PNJ@aol.com
 Received: by mail06.mail.aol.com (8.6.12/8.6.12) id QAA01349 for aprssig@tapir.org;
 Wed, 20 Dec 1995 16:05:33 -0500
 Date: Wed, 20 Dec 1995 16:05:33 -0500
 Message-ID: <951220160230_59615390@mail06.mail.aol.com>
 To: aprssig@tapir.org
 Subject: subscribe

subscribe

From tweedy@pc.gcs.litton.com Wed Dec 20 15:08:52 1995
 Received: from lcsdns1.litton.com (lcsdns1.litton.com [139.61.7.2]) by
 sys1.tapir.org (8.7.2/8.7.2) with SMTP id PAA04218 for <aprssig@tapir.org>; Wed, 20
 Dec 1995 15:08:43 -0600 (CST)
 Received: from lcsipdp (lcsipdp.litton.com) by lcsdns1.litton.com (4.1/SMI-4.1)
 id AA21232; Wed, 20 Dec 95 13:06:13 PST
 Received: from pc.gcs.litton.com by lcsipdp (4.1/SMI-4.1)
 id AA08685; Wed, 20 Dec 95 13:23:00 PST
 Received: from Connect2 Message Router by pc.gcs.litton.com
 via Connect2-SMTP 4.00; Wed, 20 Dec 95 13:09:24 -0800
 Message-Id: <BD54D83001B4ABAA@pc.gcs.litton.com>
 In-Reply-To: <B354D83001B4ABAA>
 Date: Wed, 20 Dec 95 13:07:52 -0800
 From: "TWEEDY, MIKE WH:2453" <tweedy@pc.gcs.litton.com>
 Sender: "TWEEDY, MIKE WH:2453" <tweedy@pc.gcs.litton.com>
 Organization: Litton GC/S
 To: aprssig@tapir.org
 Subject: Re: [APRSSIG:5406] Re: Error E1
 X-Mailer: Connect2-SMTP 4.00 MHS to SMTP Gateway

On 12/20/95 Jim DeLoach said:

<(1)

<I presume the precision provided by the GPS receiver is DYNAMIC, and
 changes

<as a function of which birds are in view, how many obstructions are around
<me as I drive around, etc. Will the GPS receivers' "HDOP" reflect these
<factors and change accordingly?

You are correct that GPS accuracy is dynamic, dependent on a lot of factors. HDOP, however, is a measure of dilution of precision due to less than perfect satellite geometry which it knows based on the satellites used in the navigation solution. This value does vary with time as different satellites of the GPS constellation come into view. It does not, however, reflect degradation of accuracy due to Selective Availability or ionospheric delay factors.

<(2)

<Is it true that the errors will tend to be evenly distributed between the
<x-axis (east-west) and y-axis (north-south)? Is it ever the case that the
<x-axis error is much less than the y-axis (or visa versa), and would the GPS
<receiver be able to predict this?

I have not seen anything in the literature as yet that gives a preferential bias towards North-South accuracy vs. East-West accuracy. My experience in plotting GPS positioning wandering at a fixed location over a period of time (say 24 hrs) does not appear to show any directional bias. This is a simple enough experiment you may want to try yourself, with or without differential correction.

<(3)

<I am investigating both DCI and the Coast Guard beacon receivers for
<differential correction information. Why do you say the Coast Guard
<correction information provides accuracies "within tens of meters" while DCI
<can get into the meter range? Does this have to do with how far one is from
<the reference receiver? What if the reference receiver is close?

The distance from the reference station is a factor since errors such as ionospheric propagation delays can be different at your location compared to the reference location and therefore would not be completely removed or eliminated as a common mode error source. This same logic applies when I commented that DGPS services such as DCI or Accqpoint have errors within several meters or less, depending on the type of service purchased, due primarily to its local use in a metropolitan area. Since these differentially corrected signals are encoded on a subcarrier of a local FM station, its inherent range is limited to principally line of sight, more or less. The VLF beacon stations, on the other hand, can travel larger distances over the surface of the earth (compared to local FM) which is due primarily to the propagation characteristics of the low frequency signal. Using differential corrections of this type several hundred miles away on land is less accurate than, say entering a harbor where the Coast Guard DGPS transmitter may only be a few miles away.

73's de Mike KA6SPT

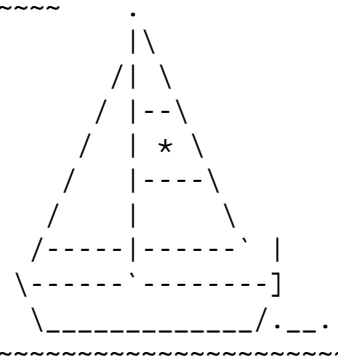
From g4bki@tnos.paccomm.com Wed Dec 20 15:34:53 1995
Received: from lantz.com (lantz.com [163.125.16.1]) by sys1.tapr.org (8.7.2/8.7.2)
with SMTP id PAA05176 for <aprssig@tapr.org>; Wed, 20 Dec 1995 15:34:43 -0600
(CST)
Received: from tnos.paccomm.com by lantz.com with smtp
(Smail3.1.29.1 #1) id m0tSW9k-0011wWC; Wed, 20 Dec 95 16:34 EST
X-BBS-Msg-Type: P
Date: Wed, 20 Dec 95 15:06:40 -0500
Message-Id: <3@tnos.paccomm.com>
From: g4bki@tnos.paccomm.com
To: aprssig@tapr.org
Subject: Re: [APRSSIG:4640] Ultimeter II
In-Reply-To: your message of Sun, 26 Nov 1995 09:32:28 -0600 (CST).
<10617@paccomm.com>

Message-Id: 3_tnos
From: g4bki@w1bel
To: aprssig@tapr.org

Well, you seem to have all the right settings, Tom. I referred to my
application note and you have nothing wrong in the set-up.
Maybe APRS in latest form has a problem? I will test and see!

~~~~~  
Paul Evans, W4/G4BKI  
G4BKI@paccomm.com  
PacComm Packet Radio Systems, Tampa, FL USA  
Views are personal, not those of employer  
In contests There's no metres like 40 metres!

Don't surf the net, SAIL it!  
Captain of S/V "Spindrift", Dunedin, FL.  
Catalina 36: Tall rig (58'), Winged Keel (4' 2")  
Full batten main, Boston Whaler dinghy, 7hp outboard



From ke4eer@ro.com Wed Dec 20 15:53:25 1995  
Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tapr.org  
(8.7.2/8.7.2) with SMTP id PAA05701 for <aprssig@tapr.org>; Wed, 20 Dec 1995  
15:53:18 -0600 (CST)  
Received: from ts2p7.ro.com (ts2p7.ro.com [205.216.92.57]) by sh1.ro.com  
(8.6.9/8.6.9) with SMTP id QAA01588 for <aprssig@tapr.org>; Wed, 20 Dec 1995  
16:47:30 -0600  
Message-Id: <199512202247.QAA01588@sh1.ro.com>  
X-Mailer: InternetWorks Mail and News 1.1  
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"  
Date: Wed, 20 Dec 1995 15:40:47  
From: ke4eer@ro.com (William Nolle)  
To: aprssig@tapr.org  
Subject: Re: [APRSSIG:5404] Re: GPS and missiles

OK GERRY I REMEMBER A WHILE BACK YOU WHERE COMPLAINING ABT  
ITEMS POSTED THAT WHERE OFF TOPIC FOR THE SIG. WHAT DO YOU  
CALL THIS VERY LENGHTY STORY ABOUT GARBAGE NOTHING TO DO  
WITH APRS. Right now the biggest part of sig messages are either the Peet  
brothers wx station or the accuracy of GPS. Although getting sick of the WX  
station problems they are related. Now the missiles and now atomic bombs have  
nothing to do with APRS. There must be a sig on internet someplace where  
this would all be very welcome. PLEASE TAKE YOUR GARBAGE  
ELSEWHERE. THANK YOU. If need be to get rid of having to read all this  
junk i will unsubscribe from the sig.

Bill KE4EER

-----

>Jim DeLoach sez:

>>

>> Look folks, the first nuclear bomb to go off in the United States will  
>> probably ride in on a donkey cart!

>

>See Tom Clancy's "The Sum of All Fears"

>

>> The real issue is that our government needs to realize that the GPS system  
>> is both a military AND a commercial resource crucial to our nations well  
>> being. SA is merely spawning a differential-correction industry (companies  
>> like DCI, and organizations like the Coast Guard) that aren't really  
>> necessary, and I doubt it is contributing much to our security. My guess is  
>> that should ICBMs get launched, GPS would totally shut off or otherwise make  
>> itself useless to hostile forces.

>

>More than likely, if we have a sufficient launch warning, we'll shut down a  
>lot more than just the GPS birds, to diminish the flash-damage from an  
>airburst. Generally, if the launch vehicle is ballistic, I'm not too worried  
>about a GPS-guided terminal phase. I'm just plain worried. An airburst over  
>Houston would complicate my life needlessly, although I doubt a minor power  
>would target College Station and complicate it significantly...

>

>The various Differential sources are, in fact, needed to improve position data  
>over that provided by Standard Positioning Service for precision applications.  
>Surveying, which uses L1 and L2, requires use of a base station and either  
>real time (kinematic) updates or post-processing to achieve sub-cm precision.  
>Similarly, the Coast Guard and Corps of Engineers have been experimenting with  
>RTK navigation-aided ship handling in restricted channels. Neither of these,  
>nor a host of other applications can be achieved using SPS or Precision  
>Position Service natively. And "Why not," you ask? Simple answer. The  
>satellite precise ephemeris sent by the Space Vehicles (I sure hope W3IWI  
>isn't looking:-) is accurate enough to place the location of the satellite  
>within (about) a 10 meter spheroid at any given time. Assuming, for the  
>nonce, that Selective Availability is OFF, and minimizing errors in the

>various onboard clocks with regard to the master reference clock, you have a  
>potential pseudorange error, off the top, of about 17 meters (2-sigma).  
>Signals travelling through the ionosphere and stratosphere are subject to some  
>induced delay. While this is modelled, and the model data are updated  
>periodically in the Broadcast Message, the fact is the model is not perfect,  
>and compensation based on it is prone to some error.

>  
>Use of several satellites to determine position, and use of a Least Squares  
>Estimator to compare various solutions, as well as smoothing based on carrier  
>phase and code phase data allow some increase accuracy of the solution. SPS  
>uses a shorter sequence of Pseudo Random Numbers in their system than PPS.  
>This, too, contributes to less precision in determining a fix. Oh... And I  
>forgot to mention multipath. This bugaboo can nail both SPS and PPS systems.  
>On our surveying gear, we use a .7 meter (diameter) groundplane to minimize  
>the effect of reflections and multipath, and attempt to set the antenna as  
>high as possible (a couple of meters) to reduce the effects of local  
>reflections. Trimble recommends, as well, that vehicles be restricted to no  
>closer than 100 meters when a precision point is being taken. On a good day,  
>using L1 only without L2 code or carrier phase correlation, discounting most  
>of the ionospheric delay and discounting multipath, you can expect about a 10  
>meter diameter ellipsoid of error for SPS and about a 3 meter ellipsoid for  
>PPS.

>  
>Real time correction can occur at several levels. For discussion, I'll talk  
>about the two I spend most of my time with: RTCM ("Mapping Grade") correction  
>was originally developed for harbor navigation, with aviation industry input,  
>and will improve SPS and PPS by about an order of magnitude (100 meter [a BAD  
>day] -> 10 meter; 10 meter -> 1 meter or so...) and RTK, which most of the  
>cheap GPS receivers cannot handle, which is able to allow significant submeter  
>resolution (we can usually reproduce 2 cm error ellipsoids around here).

>  
>RTCM (Radio Technical Committee for Maritime Operations) corrections are based  
>on using a base station at a known point, and assume, typically, an  
>L1/SPS-grade receiver. The receiver compares the pseudorange (apparent range  
>of the receiver to the spacecraft) based on timing signals with its  
>calculation of the spacecraft's anticipated pseudorange based on the broadcast  
>ephemeris (sent by the individual birds), and issues a set of corrections. It  
>also sends timing (Epoch) data and satellite health data so the receivers can  
>error out a satellite if it's unhealthy. This, of course, demands that the  
>base station and the roving station receiving the corrections be looking at  
>the same satellites. If they're not, then only limited correction can occur.  
>FURTHER, as you get farther from the base station, the precision of the  
>correction diminishes. Thus, a base station 350 km away may not give much  
>improvement over an autonomous position fix.

>  
>> On a related note, isn't it about time GPS users who are not US tax payers  
>> contributed to its upkeep? Is this already happening? How about we shut  
>> the birds down from time to time over other parts of the world till some  
>> other well to do nations pony-up?

>  
>No. We have national interests ("military") in a lot of those areas. If we  
>turn off SPS their PLGRs stop working, too. And, it'd be pretty irresponsible  
>to turn off a mode we turned on simply to try and strongarm some change from

>the rest of the world. What we're doing, instead, is gaining access to the  
>GLOSNAASS system the Russians have launched and maintain, and are continuing to  
>do so at no cost to the world. Newer receivers are starting to come out that  
>are capable of receiving both systems, and either select the best fix, or  
>integrate the two. So, tell me... you're flying your light twin over Europe,  
>with your Garmin GPS-150 onboard, meeting the applicable FARs for enroute  
>navigation, and complying with the appropriate ATC regulations for the  
>airspace you're in (they allow enroute navigation by GPS too) when the lights  
>go out... Once you've started using it, it's no fun to have to go back to  
>VORs. And if you're in IFR conditions, and your situation changes like that,  
>you're suddenly in a significantly increased-workload environment. That's no  
>fun.

>

>No, thank you, I don't think strong-arm tactics are appropriate here.

>

>Gerry N5JXS

>n5jxs@tamu.edu

>

From alanwc7r@primenet.com Wed Dec 20 16:00:15 1995

Received: from mailhost1.primenet.com (mailhost1.primenet.com [198.68.32.51]) by  
sys1.tapr.org (8.7.2/8.7.2) with ESMTP id QAA05841 for <aprssig@tapr.org>; Wed, 20  
Dec 1995 16:00:05 -0600 (CST)

Received: from usr1.primenet.com (root@usr1.primenet.com [198.68.32.11]) by  
mailhost1.primenet.com (8.7.1/8.7.1) with ESMTP id OAA11213 for  
<aprssig@tapr.org>; Wed, 20 Dec 1995 14:59:57 -0700 (MST)

Received: from Primenet.primenet.com (ip219.prc.primenet.com [204.212.56.219]) by  
usr1.primenet.com (8.7.1/8.7.1) with SMTP id OAA19220 for <aprssig@tapr.org>; Wed,  
20 Dec 1995 14:59:56 -0700 (MST)

Message-Id: <199512202159.OAA19220@usr1.primenet.com>

X-Sender: alanwc7r@primenet.com

X-Mailer: Windows Eudora Light Version 1.5.2

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Date: Wed, 20 Dec 1995 14:59:46 -0700

To: aprssig@tapr.org

From: "Alan K. Unangst" <alanwc7r@primenet.com>

Subject: Map of the Prescott, Az. Area

I have made a map of the Prescott, Az. / Yavapai Co. area, and rather than  
clutter up the TAPR site I will send it directly to anyone who want it.  
Drop me E-Mail, DIRECTLY, and I'll forward it to you (Directly)

E-Mail is alanwc7r@primenet.com

Comments on the map will, also, be welcomed!

73,

Alan, WC7R

Alan K. Unangst

From rkramer@cdx.net Wed Dec 20 16:11:24 1995  
Received: from cdx.net (www.cdx.net [204.101.129.2]) by sys1.tapr.org  
(8.7.2/8.7.2) with SMTP id QAA06509 for <aprssig@tapr.org>; Wed, 20 Dec 1995  
16:11:14 -0600 (CST)  
Received: from ron\_k.vaxxine.com (204.101.129.57) by cdx.net id  
<A19951220221101743@cdx.net>; Wed, 20 Dec 1995 17:11:01 -0500  
From: rkramer@cdx.net (Ronald Kramer)  
To: aprssig@tapr.org  
Subject: Re: [APRSSIG:5415] Re: Cheap Differential  
Date: Wed, 20 Dec 1995 22:10:56 GMT  
Message-Id: <30d888ad.54326358@mail.cdx.net>  
References: <Pine.SUN.3.91.951220144812.7792A-100000@greatlakes>  
In-Reply-To: <Pine.SUN.3.91.951220144812.7792A-100000@greatlakes>  
X-Mailer: Forte Agent .99c/16.141

On Wed, 20 Dec 1995 14:07:45 -0600 (CST), you wrote:

>On Wed, 20 Dec 1995, Ronald Kramer wrote:

>

>> Bob can you fill us in on how your APRS DGPS works, I can not find it  
>> in the HELP.TXT file under ALT S....

>> Also is it possible to run DGPS, GPS, WX, and DF all at the same time  
>> or do I need individual TNC's and computers for each??

>

>WB4APR REPLY COMMENT:

>

>Only the GPS can share the HSP with the TNC. See GPS.txt

>The WX needs its own port at 2400 baud See WX.txt

>The DF can share a single port with the TNC (and HSP-GPS) See DF.txt

>

>DGPS in APRS, simply means that IF SOMEONE on your local net is  
>transmitting RTCM-104 via PACKETS then APRS will pass those out the GPS  
>comm port. If you have wired the OUTPUT of that COM port to your GPS  
>differential INPUT, then your GPS will be happy.

>

>NOTE: Unless the DGPS station transmits at least one packet every 30  
>seconds, the data is not worth much. That sure ties up a channel.

>If you are going to spend the \$5,000 for a DGPS station, then send that  
>data via packet on a DEDICATED CHANNEL. Then all mobiles operate split  
>and LISTEN on the DGPS channel, and XMT on the APRS channel...

>

>The PSEUDO differential correction where APRS corrects all ON-AIR posits  
>based on the offset of its OWN attached GPS is only in the commercial  
>version of APRS being sold by PacComm.

>

I can understand that ok, could you please send me down  
about 10 lines of RTCM-104 code as seen by APRS, I would  
like to see if I can generate similar code to feed in on the  
rs232 port from another computer that has a fixed GPS  
and a known location to see if I can simulate a DGPS station  
in my Hamshack. I have a few Raytheon 900 GPS rx's  
that I would like to try out for this application.  
Too many toys not enough time on my hands....

tnx in advance

Regards, Ron ...

73 de Ron

Internet: rkramer@cdx.net (Ron Kramer)

Packet: ve3mx@ve3snp.#niag.on.can (sysop VE3SNP BBS)

From mead@skat.usc.edu Wed Dec 20 17:27:13 1995

Received: from skat.usc.edu (skat.usc.edu [128.125.253.131]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id RAA09934 for <aprssig@tapir.org>; Wed, 20 Dec 1995 17:27:06 -0600 (CST)

Received: from hamal.usc.edu (mead@hamal.usc.edu [128.125.18.25])

by skat.usc.edu (8.6.10/8.6.12+usc) with ESMTP

id PAA06870 for <aprssig@tapir.org>; Wed, 20 Dec 1995 15:26:53 -0800

Received: (from mead@localhost)

by hamal.usc.edu (8.7.2/8.7.2/usc)

id PAA10228; Wed, 20 Dec 1995 15:26:54 -0800 (PST)

Date: Wed, 20 Dec 95 15:26:53 GMT

From: Dick Mead <mead@skat.usc.edu>

To: aprssig@tapir.org

Subject: U-2000 info?

Message-ID: <CMM.0.90.2.819502013.mead@hamal.usc.edu>

I'd also like to see the modem mode commands, and an explanation of the output of each mode. I would like to know what's where in the data stream and the format/value range.

From mark@tetherless.com Wed Dec 20 18:46:10 1995

Received: from gorgor.pa.tetherless.com (root@gorgor.pa.tetherless.com [204.94.180.2]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id SAA14906 for <aprssig@tapir.org>; Wed, 20 Dec 1995 18:46:03 -0600 (CST)

Received: from mark (mark.pa.tetherless.com [204.94.180.151]) by gorgor.pa.tetherless.com (8.6.11/8.6.11) with SMTP id QAA15297 for <aprssig@tapir.org>; Wed, 20 Dec 1995 16:45:56 -0800

Date: Wed, 20 Dec 1995 16:45:56 -0800

Message-Id: <199512210045.QAA15297@gorgor.pa.tetherless.com>

X-Sender: mark@gorgor.pa.tetherless.com

X-Mailer: Windows Eudora Version 1.4.4

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

To: aprssig@tapir.org

From: mark@tetherless.com (Mark Oppenheim)

Subject: FS: Cheap 2M trackers ???

I saw the following on rec.radio.swap

Being a "Motorola guy", I don't know anything about these units, but if they'll tune to 2M, it may be a cheap, good source of mobile trackers. Anyone familiar with these radios?

Mark

-----

Subject: FS: GE MPX HT'S  
Date: 16 Dec 1995 05:33:26 GMT  
From: "swcomsvc@netplus.net" <swcomsvc@netplus.net>  
Organization: Internet access plus  
Newsgroups: rec.radio.swap

HAVE 50 PLUS UNITS VHF 5 WATT WITHOUT CHARGERS AND BATTERIES. WILL SELL  
FOR \$15 EACH.

-----  
From kheyboer@pinegov.co.pinellas.fl.us Wed Dec 20 19:47:27 1995  
Received: from pinegov (pinegov.co.pinellas.fl.us [136.174.202.1]) by  
sys1.tapir.org (8.7.2/8.7.2) with SMTP id TAA16831 for <aprssig@tapir.org>; Wed, 20  
Dec 1995 19:47:24 -0600 (CST)  
Received: by pinegov (5.0/SMI-SVR4)  
id AA08484; Thu, 21 Dec 1995 01:46:20 +0000  
Errors-To: root@pinegov.co.pinellas.fl.us  
Date: Thu, 21 Dec 1995 01:46:19 +0000 (EST)  
From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>  
To: aprssig@tapir.org  
Subject: Re: [APRSSIG:5312] License Class/Gate  
In-Reply-To: <Pine.LNX.3.91.951218201306.1755D-100000@tbc2.tbcnet.com>  
Message-Id: <Pine.SUN.3.91.951221014529.8426C-100000@pinegov>  
Mime-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 18 Dec 1995, Barry Leonard wrote:

> Hi there, and happy holidays!  
> Would somebody refresh my memory if a certain class of Ham license is  
> required for a station to be a GATE?  
>  
> Thanks,  
> Barry Leonard  
> jleonard@tbcnet.com  
> N9VJQ  
>  
>  
I presume you mean an HF GATE, in which case the answer is yes....General  
Class or higher for any HF use other than 10 meters.....hope that answers  
the question....

73 de Kevin KD4UYR

From moyers@ibm.net Wed Dec 20 21:10:05 1995  
Received: from smtp-gw01.ny.us.ibm.net ([165.87.194.252]) by sys1.tapir.org  
(8.7.2/8.7.2) with SMTP id VAA19369 for <aprssig@tapir.org>; Wed, 20 Dec 1995  
21:09:59 -0600 (CST)  
Received: (from uucp@localhost) by smtp-gw01.ny.us.ibm.net (8.6.9/8.6.9) id



DAA13301 for <aprssig@tapr.org>; Thu, 21 Dec 1995 03:09:51 GMT  
Message-Id: <199512210309.DAA13301@smtp-gw01.ny.us.ibm.net>  
Received: from slip166-72-241-66.tn.us.ibm.net(166.72.241.66) by smtp-gw01.ny.us.ibm.net via smap (V1.3mjr)  
id smakfADFW; Thu Dec 21 03:09:43 1995  
X-Mailer: Post Road Mailer (Green Edition Ver 1.03a)  
From: N4QEA <moyers@ibm.net>  
To: aprssig@tapr.org  
Date: Wed, 20 Dec 1995 22:12:28 EST  
Reply-To: N4QEA <moyers@ibm.net>  
Subject: Re: U2000 and APRS

I have been watching the sig on the problems and have been trying to work this out since back in version 74d. I have attempted to run APRS and the U2000 from plain stripped dos, from DOS/Desqview, and from inside an OS\2 Dos window. To date my best luck has been from within OS\2. The last experiment I ran seemed to be the most productive at finding a cause. From what Bob told me I decided that APRS buffers all comport data anytime the keyboard is active. I had also observed that the hangs between the U2000 and APRS occured immediatly after returning APRS back to talking to the comm ports. Infact it looked like APRS was attempting to talk to both com ports at the same time.

In my experiment I turned the radio off still leaving the TNC and U2000 active, and then entered along comment message and waited a couple of seconds before sending. This time NO HANGS, A quick comm-buffer overrun message but NO HANGS. This indicated that what was happening was that the buffers inside APRS were overfilling with TNC data and were not able to dump before APRS toggled the U2000 for data.

So, I knocked APRS down in the DOS window and opened back up in its own window and tested it again (same test). This the system hung. So after some minor tweaking of timing PARMS for the APRS DOS WINDOW I have this working. Now I'm seeing some corrupted data from the TNC every so often but nothing major.

I have suggested to BOB that he Hardware flow control the tnc anytime he needs to stop data from it as well as when it toggles for the u2000 port, instead of buffering the data. The TNC's have built in buffers just for this and may help.

73

John Moyers  
ARS; N4QEA  
Packet; N4QEA @ N4QEA.#METN.TN.USA.NA  
Inet; moyers@ibm.net  
Cruise Missile; 36,02.89N/83,43.35W

From dbarrow@omnifest.uwm.edu Wed Dec 20 21:29:01 1995  
Received: from uwm.edu (uwm.edu [129.89.6.2]) by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id VAA19805 for <aprssig@tapr.org>; Wed, 20 Dec 1995 21:28:58 -0600 (CST)  
Received: from omnifest.uwm.edu (omnifest.uwm.edu [129.89.70.58]) by uwm.edu

(8.7.1/8.6.9) with SMTP id VAA31281 for <aprssig@tapr.org>; Wed, 20 Dec 1995 21:28:54 -0600 (CST)  
Received: by omnifest.uwm.edu; (5.65/1.1.8.2/17Sep94-0940PM)  
id AA01999; Wed, 20 Dec 1995 21:28:54 -0600  
Date: Wed, 20 Dec 1995 21:28:54 -0600  
From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>  
Message-Id: <9512210328.AA01999@omnifest.uwm.edu>  
To: aprssig@tapr.org  
Subject: Re: [APRSSIG:5374] Quick Questiony

From mwalker@interlog.com Wed Dec 20 21:36:41 1995  
Received: from gold.interlog.com (root@gold.interlog.com [198.53.145.2]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id VAA20137 for <aprssig@tapr.org>; Wed, 20 Dec 1995 21:36:38 -0600 (CST)  
Received: from interlog.com (mwalker.interlog.com [199.212.152.131]) by gold.interlog.com (8.6.10/8.6.10) with SMTP id WAA22126 for <aprssig@tapr.org>; Wed, 20 Dec 1995 22:36:06 -0500  
Message-Id: <199512210336.WAA22126@gold.interlog.com>  
Date: Wed, 20 Dec 95 10:35:59 EST  
From: mwalker@interlog.com (Mike Walker)  
Reply-To: mwalker@interlog.com (Mike Walker)  
To: aprssig@tapr.org  
X-Mailer: Mike Walker's PMMail v1.1  
Subject: Re: [APRSSIG:5421] Re: GPS and missiles

On Wed, 20 Dec 1995 16:10:35 -0600 (CST) you wrote:

>OK GERRY I REMEMBER A WHILE BACK YOU WHERE COMPLAINING ABT  
>ITEMS POSTED THAT WHERE OFF TOPIC FOR THE SIG. WHAT DO YOU  
>CALL THIS VERY LENGHTY STORY ABOUT GARBAGE NOTHING TO DO  
>WITH APRS. Right now the biggest part of sig messages are either the Peet  
>brothers wx station or the accuracy of GPS. Altough getting sick of the WX  
>station problems they are related. Now the missiles and now atomic bombs have  
>nothing to do with APRS. There must be a sig on internet someplace where  
>this would all be very welcome. PLEASE TAKE YOUR GARBAGE  
>ELSEWHERE. THANK YOU. If need be to get rid of having to read all this  
>junk i will unsubscribe from the sig.  
>  
>Bill KE4EER  
>-----  
>

I disagree...

The technical discussion allows me to further understand how GPS functions.

It is discussions like this that help to design and improve things. Hams used to do this all the time before they became appliance operators.

Merry Christmas...mike

Mike Walker  
127 High St. W.

mwalker@interlog.com  
rf: va3mw@va3bbs

Mississauga, ON  
L5H 1K4

From dbarrow@omnifest.uwm.edu Wed Dec 20 21:38:48 1995  
Received: from uwm.edu (uwm.edu [129.89.6.2]) by sys1.tapr.org (8.7.2/8.7.2) with  
ESMTP id VAA20156 for <aprssig@tapr.org>; Wed, 20 Dec 1995 21:38:46 -0600 (CST)  
Received: from omnifest.uwm.edu (omnifest.uwm.edu [129.89.70.58]) by uwm.edu  
(8.7.1/8.6.9) with SMTP id VAA32618 for <aprssig@tapr.org>; Wed, 20 Dec 1995  
21:38:38 -0600 (CST)  
Received: by omnifest.uwm.edu; (5.65/1.1.8.2/17Sep94-0940PM)  
id AA03068; Wed, 20 Dec 1995 21:38:37 -0600  
Date: Wed, 20 Dec 1995 21:38:37 -0600  
From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>  
Message-Id: <9512210338.AA03068@omnifest.uwm.edu>  
To: aprssig@tapr.org  
Subject: Re: [APRSSIG:5387] Re: Error Ellips

Let me see if I have this right....

One branch of the government PURPOSEFULLY induces GPS error  
and then

The Coast Guard beacons the corrections FREE to those that have  
a beacon reciever.

Did I understand that correctly???? 'Cause it SURE doesn't make a whole  
lot of sense.

CUL & 73 de Dave

=====  
David W. Barrow III \* Amateur Radio:N9UNR \* Internet:dbarrow@omnifest.uwm.edu  
U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin 53095-9603  
Ma Bell:(414) 375-2667 \* Amateur Packet:N9UNR@N9PBY.EN63BI.WI.USA.NOAM  
Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham  
=====

From hammock@tis.telos.com Wed Dec 20 22:03:01 1995  
Received: from tis.telos.com (tis.telos.com [198.116.7.53]) by sys1.tapr.org  
(8.7.2/8.7.2) with SMTP id WAA20763 for <aprssig@tapr.org>; Wed, 20 Dec 1995  
22:02:58 -0600 (CST)  
Received: (hammock@localhost) by tis.telos.com (8.6.12/8.6.4) id XAA19130; Wed, 20  
Dec 1995 23:04:49 -0500  
Date: Wed, 20 Dec 1995 23:04:48 -0500 (EST)  
From: Randy Hammock <hammock@tis.telos.com>  
To: aprssig@tapr.org  
Subject: Re: [APRSSIG:5416] Re: Altered PK-88 TOne setting  
In-Reply-To: <Pine.SUN.3.91.951220150430.7792B-100000@greatlakes>  
Message-ID: <Pine.SOL.3.91.951220225921.19115A@zentropa>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 20 Dec 1995, Bob Bruninga wrote:

> > a copy of the solution. The problem is that APRS sets the PK-88 TOne to 2  
> > when it needs to be set to 3. The question is, which of the .TNC files

> > needs to be modified to contain the necessary "TOne 3" command,  
 > > INITAEA.TNC, RESTORE.TNC or both? Or, should a different TNC be spcified  
 >  
 > WB4APR REPLY COMMENT:  
 >  
 > I cannot fix this problem, until someone sits down and uses a dumb  
 > terminal program to send EACH of the commands to their PK-88 that are in  
 > INITAEA.tnc (or INITTAPR.tnc) and tells me WHICH of my commands is  
 > causing the PK-88 to switch TONES...  
 >  
 > Please someone with a PK-88 do this..... Thanks.

Bob, None of the commands in the INITAEA.TNC file will cause the problem,  
 I ran them all through the PK-88; however, if at any time a Vhf OFF is  
 sent then a Vhf ON is sent, the PK-88 will change to TOne 2. Vhf OFF  
 causes the PK-88 to set TOne 1. The interesting thing is that if Vhf is  
 already ON, sending Vhf ON again does not change the TOne setting from 3  
 to 2. This only happens when Vhf is switching from OFF to ON.

Hope this help.

--

Randy Hammock KC6HUR	Randy.Hammock@Telos.com
Telos Information Systems - EDOS	hammock@gmd.trw.com
7474 Greenway Center Drive; Suite 400	Voice: +1 301 507-5904
Greenbelt, Maryland 20770	FAX: +1 301 507-5892

From kc5ejk@onramp.net Wed Dec 20 22:14:57 1995  
 Received: from mailhost.onramp.net (mailhost.onramp.net [199.1.11.3]) by  
 sys1.tapr.org (8.7.2/8.7.2) with SMTP id WAA21193 for <aprssig@tapr.org>; Wed, 20  
 Dec 1995 22:14:54 -0600 (CST)  
 Received: from [199.1.154.36] (central36.onramp.net [199.1.154.36]) by  
 mailhost.onramp.net (8.6.12/8.6.5) with SMTP id WAA03301 for <aprssig@tapr.org>;  
 Wed, 20 Dec 1995 22:14:38 -0600  
 X-Sender: kc5ejk@onramp.net (Unverified)  
 Message-Id: <v02130500acfe8e0ccf3e@[199.1.11.131]>  
 Mime-Version: 1.0  
 Content-Type: text/plain; charset="us-ascii"  
 Date: Wed, 20 Dec 1995 22:14:53 -0600  
 To: aprssig@tapr.org  
 From: kc5ejk@onramp.net (Robert Winingham)  
 Subject: GPS Questions

A good news group to join to learn more about GPS is

Newsgroup: sci.geo.satellite-nav  
 Just a few of todays topics.

- \* GPS Beginner's Questions
- \* DGPS correction signal protocol -
- \* NMEA / UTM Question -
- \* re: suction cup mounting of GPS antenna in airplanes and automobiles -
- \* DELORME MapExpert and GPS???

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

From gerry@cs.tamu.edu Wed Dec 20 23:12:30 1995  
 Received: from cs.tamu.edu (clavin.cs.tamu.edu [128.194.130.106]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id XAA23410 for <aprssig@tapir.org>; Wed, 20 Dec 1995 23:12:26 -0600 (CST)  
 Received: from solar.cs.tamu.edu (2961@solar.cs.tamu.edu [128.194.132.1]) by cs.tamu.edu (8.6.10/8.6.4) with ESMTP id XAA13292 for <aprssig@tapir.org>; Wed, 20 Dec 1995 23:11:48 -0600  
 From: Gerald J Creager <gerry@cs.tamu.edu>  
 Received: (gerry@localhost) by solar.cs.tamu.edu (8.6.10/8.6.4) id XAA00121 for aprssig@tapir.org; Wed, 20 Dec 1995 23:11:31 -0600  
 Message-Id: <199512210511.XAA00121@solar.cs.tamu.edu>  
 Subject: Re: [APRSSIG:5423] Re: Cheap Differential  
 To: aprssig@tapir.org  
 Date: Wed, 20 Dec 1995 23:11:31 -0600 (CST)  
 In-Reply-To: <30d888ad.54326358@mail.cdx.net> from "Ronald Kramer" at Dec 20, 95 04:31:26 pm  
 X-Mailer: ELM [version 2.4 PL24]  
 Content-Type: text

Ronald Kramer sez:

>  
 > I can understand that ok, could you please send me down  
 > about 10 lines of RTCM-104 code as seen by APRS, I would  
 > like to see if I can generate similar code to feed in on the  
 > rs232 port from another computer that has a fixed GPS  
 > and a known location to see if I can simulate a DGPS station  
 > in my Hamshack. I have a few Raytheon 900 GPS rx's  
 > that I would like to try out for this application.  
 > Too many toy's not enough time on my hands....  
 > tn timer advance

I don't have anything handy here, but should be able to send you something tomorrow, IF it's needed. I'd recommend, since RTCM-SC-104 sentences are not, strictly speaking, ascii (excluding the NMEA-similar new stuff) that you grab a couple of the back issues of the institute of Navigation, and peruse it. I'm doing something similar for a research application, using the Motorola OnCore engines.

Tell your receiver to go into a position hold mode, and feed it a reference point. Now, ask it to give you the pseudorange correction and pseudorange rate correction on an epoch-by-epoch basis. Barring that, do the ephemeris calculations (SGP3, I believe), and compare the instantaneous results with the receiver-calculated pseudorange and range rate calculations. On a satellite-by-satellite basis, extract the deltas between the calculated numbers and the pseudorange and rate data determined via timing by the receiver.

The format's not too bad. The matrix solutions are time consuming.

73, gerry  
n5jxs@tamu.edu

From gerry@cs.tamu.edu Wed Dec 20 23:17:46 1995  
Received: from cs.tamu.edu (clavin.cs.tamu.edu [128.194.130.106]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id XAA23470 for <aprssig@tapir.org>; Wed, 20 Dec 1995 23:17:44 -0600 (CST)  
Received: from solar.cs.tamu.edu (2961@solar.cs.tamu.edu [128.194.132.1]) by cs.tamu.edu (8.6.10/8.6.4) with ESMTP id XAA13339 for <aprssig@tapir.org>; Wed, 20 Dec 1995 23:17:12 -0600  
From: Gerald J Creager <gerry@cs.tamu.edu>  
Received: (gerry@localhost) by solar.cs.tamu.edu (8.6.10/8.6.4) id XAA00186 for aprssig@tapir.org; Wed, 20 Dec 1995 23:16:55 -0600  
Message-Id: <199512210516.XAA00186@solar.cs.tamu.edu>  
Subject: Re: [APRSSIG:5421] Re: GPS and missiles  
To: aprssig@tapir.org  
Date: Wed, 20 Dec 1995 23:16:55 -0600 (CST)  
In-Reply-To: <199512202247.QAA01588@sh1.ro.com> from "William Nolle" at Dec 20, 95 04:10:35 pm  
X-Mailer: ELM [version 2.4 PL24]  
Content-Type: text

William Nolle sez:

>  
> OK GERRY I REMEMBER A WHILE BACK YOU WERE COMPLAINING ABT  
> ITEMS POSTED THAT WERE OFF TOPIC FOR THE SIG. WHAT DO YOU  
> CALL THIS VERY LENGHTY STORY ABOUT GARBAGE NOTHING TO DO  
> WITH APRS. Right now the biggest part of sig messages are either the Peet  
> brothers wx station or the accuracy of GPS. Although getting sick of the WX  
> station problems they are related. Now the missiles and now atomic bombs have  
> nothing to do with APRS. There must be a sig on internet someplace where  
> this would all be very welcome. PLEASE TAKE YOUR GARBAGE  
> ELSEWHERE. THANK YOU. If need be to get rid of having to read all this  
> junk i will unsubscribe from the sig.

Bill,

I'm real sorry you didn't like the missive. It's \*not\* junk, but it was long. It \*is\* GPS related, and as there has been some interest in enhancing accuracy and precision using DGPS, I did not feel it too far out of line.

You've done quite a bit of good work lately with the maps of Alabama. I think what I have to add is on the technical end. I have been pretty busy, and hve not done much map-making. I have been doing some DGPS making, some research, some publications and scientific presentations. And going to school.

I'm sorry if you were offended by a discourse on how something works. If that's not good enough, Goodbye.

Gerry

From gerry@cs.tamu.edu Wed Dec 20 23:25:22 1995  
Received: from cs.tamu.edu (clavin.cs.tamu.edu [128.194.130.106]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id XAA23838 for <aprssig@tapir.org>; Wed, 20 Dec 1995 23:25:18 -0600 (CST)  
Received: from solar.cs.tamu.edu (2961@solar.cs.tamu.edu [128.194.132.1]) by cs.tamu.edu (8.6.10/8.6.4) with ESMTP id XAA13447 for <aprssig@tapir.org>; Wed, 20 Dec 1995 23:24:36 -0600  
From: Gerald J Creager <gerry@cs.tamu.edu>  
Received: (gerry@localhost) by solar.cs.tamu.edu (8.6.10/8.6.4) id XAA00296 for aprssig@tapir.org; Wed, 20 Dec 1995 23:24:19 -0600  
Message-Id: <199512210524.XAA00296@solar.cs.tamu.edu>  
Subject: Re: [APRSSIG:5430] Re: Error Ellips  
To: aprssig@tapir.org  
Date: Wed, 20 Dec 1995 23:24:18 -0600 (CST)  
In-Reply-To: <9512210338.AA03068@omnifest.uwm.edu> from "David W. Barrow III" at Dec 20, 95 09:46:01 pm  
X-Mailer: ELM [version 2.4 PL24]  
Content-Type: text

David W. Barrow III sez:

>  
> Let me see if I have this right....  
>       One branch of the government PURPOSEFULLY induces GPS error  
> and then  
>       The Coast Guard beacons the corrections FREE to those that have  
>       a beacon reciever.  
>  
> Did I understand that correctly????   'Cause it SURE doesn't make a whole  
> lot of sense.

Depends on the mission. DoD is interested in providing C/A code to allow initial timing lock for PPS (P(Y)code) acquisition, and incidentally letting the civilians use C/A code in the interim. USCG is interested in general and harbor maritime navigation. They're interested in relatively precise locations around their harbors with allowable dilution on the high seas.

DoD is interested in confusing the terminal phase navigation of ballistic entry vehicles and of cruise missiles headed for US forces and/or troops. USCG has more interest in using the system to get up the Houston Ship Channel safely. And the last time a ship was ballistic in the Houston Ship Channel area was when we blew up the fertilizer ship in Texas City in 1947! :-)

73, gerry  
n5jxs@tamu.edu

From grant@aretha.llnl.gov Wed Dec 20 23:26:55 1995  
Received: from pierce.llnl.gov (pierce.llnl.gov [128.115.18.253]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id XAA23877 for <aprssig@tapir.org>; Wed, 20 Dec 1995 23:26:53 -0600 (CST)  
Received: from aretha.llnl.gov by pierce.llnl.gov (8.6.10/LLNL-1.18/llnl.gov-03.95)  
id VAA18420; Wed, 20 Dec 1995 21:26:48 -0800  
Received: by aretha.llnl.gov (940816.SGI.8.6.9/911001.SGI)

id VAA28735; Wed, 20 Dec 1995 21:26:48 -0800  
Date: Wed, 20 Dec 1995 21:26:48 -0800  
Message-Id: <199512210526.VAA28735@aretha.llnl.gov>  
From: Chuck Grant <grant@aretha.llnl.gov>  
To: aprssig@tapr.org  
In-reply-to: <199512210336.WAA22126@gold.interlog.com> (mwalker@interlog.com)  
Subject: Re: [APRSSIG:5429] Re: GPS and missiles  
Reply-to: chuck-grant@llnl.gov  
Bell-Net: (510) 422-7278 (Fax 510 422-2095)  
Organization: University of California  
Campus: Lawrence Livermore National Laboratory  
Location: 7000 East Ave. L-530, Livermore, California, USA 94550  
Department: Environmental Protection Department  
Division: Environmental Restoration Division

>  
> I disagree...  
> The technical discussion allows me to further understand how GPS functions.  
>  
> It is discussions like this that help to design and improve things. Hams used  
> to do this all the time before they became appliance operators.  
>  
> Merry Christmas...mike  
>  
> Mike Walker mwalker@interlog.com

The demise of ham radio is Irrelevant: This is not a general ham radio mailing list, not a general system design mailing list. It is specific to APRS.

Your reasoning is not far from "I find it interesting, so therefore it is appropriate to discuss in all contexts." The interest or educational value is not the question. I could give you tips on computer architecture too (or keyboard ergonomics, or antenna design, or direction finding, or vhf propagation, or software engineering, or computer graphics, or ...), which might further your understanding of things remotely related to APRS. But this is clearly not the place to conduct extended discussions on remotely related subjects.

So if you are really interested in learning more about GPS, go find a GPS mailing list/news group/discussion, or if there isn't one (I find that unlikely) start your own. All this missile crap and politics has no business in an APRS mailing list. Just because something is remotely related to APRS does not mean that this is the best place to discuss it.

This list has about the lowest signal to noise ratio of any list I have ever read. Let's not try to make it worse.

Chuck KE6CIL

From KD4EMI@aol.com Thu Dec 21 00:21:04 1995  
Received: from mail06.mail.aol.com (mail06.mail.aol.com [152.163.172.108]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id AAA01125 for <aprssig@tapr.org>; Thu, 21 Dec 1995 00:21:02 -0600 (CST)



From: KD4EMI@aol.com  
Received: by mail06.mail.aol.com (8.6.12/8.6.12) id BAA00992 for aprssig@tapr.org;  
Thu, 21 Dec 1995 01:20:28 -0500  
Date: Thu, 21 Dec 1995 01:20:28 -0500  
Message-ID: <951220211636\_95858778@mail06.mail.aol.com>  
To: aprssig@tapr.org  
Subject: GPS ALTITUDE AND ETC

Folks I want to take a sec and remind everyone that  
I started this thread with

:MY GARMIN 45 Doesnt give accurate altitude...etc etc"

WE have digressed to Tom Clancy and Missiles etc ad nauseum.  
ALL I wanted to know was why the GPS didnt work as well as my  
friends' GPS. This has been answered. Although I enjoy elsipsoids,  
sinusoidal nodes, mutipath, and now ICBM topics...I think we got  
off the track and have permutated into hypothetical gobblygook.

Noting this I thought I would clear the air and discuss the recent meteor  
event, and a story that should make a few of you laugh.  
I recently purchased a ICOM 706. It's in the car. I'd not really payed much  
attention to the meteor scatter event. NOW since I have ssb and CW on  
2 meters the thought has crossed my mind to play with it. NOW THE  
FUNNY PART

I was on a date last weekend and we were parked in my car, and I was  
getting a little "brave" with my new date. (Im keeping it clean).  
I noticed a flash in the sky and saw an ionization event (a shooting star).  
Then a few more. I told my date about how we use that ion trail to bounce  
signals off of and make distant contacts. (SHE YAWNED)  
Then I told her that I could take advantage of the event and try to fire  
up the 2m CW rig and make a contact. (YAWN AGAIN)  
She didnt seem too interested.

So I took her home.. Didnt get any (Dx) either...  
Warning to the wise...

Either

A: Get a girl who aprpreciates ionization events  
or

B: Stay home if you want to work DX

She wasnt my type anyway :)

Let's enjoy the sig and move along now...thanks for all the responses  
on the gps situation (I only hope that this little ditty doesnt start  
some mutant thread again)

73 Mike KD4EMI@AOL.COM

From bob@cyberg8t.com Thu Dec 21 00:34:13 1995  
Received: from key.cyberg8t.com (root@key.cyberg8t.com [204.137.200.40]) by

sys1.tapir.org (8.7.2/8.7.2) with SMTP id AAA01607 for <aprssig@tapir.org>; Thu, 21 Dec 1995 00:34:11 -0600 (CST)  
Received: from host15.cyberg8t.com (host15.cyberg8t.com [204.137.200.74]) by key.cyberg8t.com (8.6.12/8.6.12) with SMTP id WAA26477 for <aprssig@tapir.org>; Wed, 20 Dec 1995 22:35:09 -0800  
Date: Wed, 20 Dec 1995 22:35:09 -0800  
Message-Id: <199512210635.WAA26477@key.cyberg8t.com>  
X-Sender: bob@cyberg8t.com  
X-Mailer: Windows Eudora Version 1.4.3  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: aprssig@tapir.org  
From: bob@cyberg8t.com (Robert James Harris)  
Subject: Re: [APRSSIG:5434] Re: GPS and missiles

Gerry - Dittos

I subscribe to this mailing list to LEARN and technical discussions about GPS, WX or whatever hamish stuff intrigues the hell out of me. At 50, I am not too old to learn WHY instead of snivelling about how.

>

From sparkfel@primenet.com Thu Dec 21 00:44:08 1995  
Received: from mailhost1.primenet.com (mailhost1.primenet.com [198.68.32.51]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id AAA01689 for <aprssig@tapir.org>; Thu, 21 Dec 1995 00:44:05 -0600 (CST)  
Received: from usr4.primenet.com (root@usr4.primenet.com [198.68.32.14]) by mailhost1.primenet.com (8.7.1/8.7.1) with ESMTP id XAA03791 for <aprssig@tapir.org>; Wed, 20 Dec 1995 23:44:02 -0700 (MST)  
Received: from ip224.phx.primenet.com (ip224.phx.primenet.com [198.68.46.224]) by usr4.primenet.com (8.7.1/8.7.1) with SMTP id XAA19989; Wed, 20 Dec 1995 23:44:01 -0700 (MST)  
Date: Wed, 20 Dec 1995 23:44:01 -0700 (MST)  
Message-Id: <199512210644.XAA19989@usr4.primenet.com>  
X-Sender: sparkfel@mailhost.primenet.com  
X-Mailer: Windows Eudora Version 1.4.4  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: aprssig@tapir.org, aprssig@tapir.org  
From: sparkfel@primenet.com (Mark Fellhauer)  
Subject: Re: [APRSSIG:5375] Re: GPS and missiles

At 03:36 PM 12/19/95 -0600, gordon\_hardman wrote:

>In response to the comment on velocity limits, commercial vendors (in  
>the US at least) of SPS receivers are obliged by the US government to  
>limit either velocity or altitude useability of their receivers in  
>order to preclude their use in guided munitions.  
>

Ahh, but current cruise missiles fly low & slow.

Mark Fellhauer  
KC7BXS  
sparkfel@primenet.com

From sparkfel@primenet.com Thu Dec 21 00:56:30 1995

Received: from mailhost1.primenet.com (mailhost1.primenet.com [198.68.32.51]) by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id AAA02049 for <aprssig@tapr.org>; Thu, 21 Dec 1995 00:56:27 -0600 (CST)

Received: from usr1.primenet.com (root@usr1.primenet.com [198.68.32.11]) by mailhost1.primenet.com (8.7.1/8.7.1) with ESMTP id XAA04366 for <aprssig@tapr.org>; Wed, 20 Dec 1995 23:56:25 -0700 (MST)

Received: from ip224.phx.primenet.com (ip224.phx.primenet.com [198.68.46.224]) by usr1.primenet.com (8.7.1/8.7.1) with SMTP id XAA28951; Wed, 20 Dec 1995 23:56:23 -0700 (MST)

Date: Wed, 20 Dec 1995 23:56:23 -0700 (MST)

Message-Id: <199512210656.XAA28951@usr1.primenet.com>

X-Sender: sparkfel@mailhost.primenet.com

X-Mailer: Windows Eudora Version 1.4.4

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

To: aprssig@tapr.org, aprssig@tapr.org

From: sparkfel@primenet.com (Mark Fellhauer)

Subject: Re: [APRSSIG:5436] Re: GPS and missiles

At 11:43 PM 12/20/95 -0600, Chuck Grant wrote:

>So if you are really interested in learning more about GPS, go find a GPS  
>mailing list/news group/discussion, or if there isn't one (I find that  
>unlikely) start your own. All this missile crap and politics has no business  
>in an APRS mailing list. Just because something is remotely related to APRS  
>does not mean that this is the best place to discuss it.

>

>This list has about the lowest signal to noise ratio of any list I have  
>ever read. Let's not try to make it worse.

>

>Chuck KE6CIL

>

I hate to be argumentative, but couldn't you practice a little of what you preach?

What does a personal gripe have to do with APRS? Couldn't you have sent this via private e-mail? The topic at hand is properly noted on the SUBJECT line. If you do not care to read about "GPS and Missiles" then skip past articles labeled with this subject line. It's that simple. Sooner or later the people engaged in this digression will once again return to topics more akin to APRS.

And if you think this list has the lowest signal to noise ratio, why do you stay?

Mark Fellhauer  
KC7BXS

sparkfel@primenet.com

From ke6lof@inreach.inreach.com Thu Dec 21 01:03:29 1995  
Received: from inreach.com (inreach.com [205.138.224.2]) by sys1.tappr.org (8.7.2/8.7.2) with SMTP id BAA02469 for <aprssig@tappr.org>; Thu, 21 Dec 1995 01:03:23 -0600 (CST)  
Received: from ppp070.inreach.com by inreach.com (8.6.9/SMI-SVR4) id XAA08693; Wed, 20 Dec 1995 23:05:03 -0800  
Date: Wed, 20 Dec 1995 23:05:03 -0800  
Message-Id: <199512210705.XAA08693@inreach.com>  
X-Sender: ke6lof@inreach.com  
X-Mailer: Windows Eudora Light Version 1.5.2  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: aprssig@tappr.org  
From: Dan <ke6lof@inreach.inreach.com>  
Subject: Map Making

Hello All,

I am Dan (ke6lof) in Stockton Ca. I've been operating APRS for nearly a year and a half. Now I feel it's my turn to contribute to the community as much as I can. I am looking for help in making maps for my local area, So far I have downloaded the maps from the USGS and have gzip and all the utilities needed for the job, All I'm looking for now is the proper way to put all this together and apply it to APRS.

Any help will be graciously accepted.

Dan Mutters Ke6lof  
ke6lof@inreach.com  
ke6lof@w6sf.#nocal.ca.na  
ip 44.2.1.147

From bruninga@nadn.navy.mil Thu Dec 21 01:49:08 1995  
Received: from greatlakes.nadn.navy.mil (greatlakes.nadn.navy.mil [131.121.9.4]) by sys1.tappr.org (8.7.2/8.7.2) with SMTP id BAA03983 for <aprssig@tappr.org>; Thu, 21 Dec 1995 01:49:06 -0600 (CST)  
Received: (from bruninga@localhost) by greatlakes.nadn.navy.mil (8.6.12/8.6.12) id CAA11661; Thu, 21 Dec 1995 02:49:33 -0500  
Date: Thu, 21 Dec 1995 02:49:32 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
To: aprssig@tappr.org  
cc: gps@humec.ksu.edu, Asst Prof Carl E Wick <wick@guam.nadn.navy.mil>, clement@guam.nadn.navy.mil  
Subject: APRS Cellular interface!  
Message-ID: <Pine.SUN.3.91.951221024250.11647A-100000@greatlakes>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

CELLULAR AUTOMATIC POSITION REPORTING SYSTEM (APRS)

\*\*\*\*\* PRELIMINARY ANNOUNCEMENT \*\*\*\*\*

With the newly developed Cellular APRS Transmitter (CAT), any vehicle or individual with a cellular phone and a GPS can report his position to home base nationwide wherever cellular service is available. At the home base, the position report is automatically displayed on a map display on the dispatcher's computer or networked to other PC's throughout the company. In addition to the position, a status message selected from literally dozens of pre-arranged messages can be sent. The cost of each position/status report is the same as the minimum 1 minute rate with your cellular carrier. Today this is typically less than 50 cents.

The CAT is about the size of a cigarette pack and interfaces your GPS to \*ANY\* cellular phone. It does not require the expensive data interface that is available for only the top-end phones. To avoid unnecessary phone charges, and report the most meaningful positions, a position report is only sent when the driver/operator presses a button. The CAT has a number of status switches which can be set to indicate any number of pre-arranged messages. The messages are field programmable. Optionally, several channels of telemetry from the vehicle can also be included in the message.

The Dispatcher Interface (DI) is a box that connects the APRS display computer to the phone line to receive the incoming mobile reports. Using the DI, APRS can maintain a track on up to 80 or more mobiles depending on their reporting rate. Maps anywhere in the country are available at various levels of detail. Since the primary application is the interstate traveler, the basic system comes with maps of the entire USA with all major roads and interstates.

The cost of the CAT's are expected to be around \$100 each and the Dispatcher Interface around \$220. Product availability this spring. Prices are only estimates pending production costs...

For more information, contact APRS Inc  
115 Old Farm Ct  
Glen Burnie, MD 21060

From ke4eer@ro.com Thu Dec 21 05:16:05 1995  
Received: from sh1.ro.com (root@sh1.ro.com [205.216.92.5]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id FAA08887 for <aprssig@tapir.org>; Thu, 21 Dec 1995 05:16:02 -0600 (CST)  
Received: from ts1p10.ro.com (ts1p10.ro.com [205.216.92.30]) by sh1.ro.com (8.6.9/8.6.9) with SMTP id GAA23849 for <aprssig@tapir.org>; Thu, 21 Dec 1995 06:22:37 -0600  
Message-Id: <199512211222.GAA23849@sh1.ro.com>  
X-Mailer: InternetWorks Mail and News 1.1  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 21 Dec 1995 05:15:45

From: ke4eer@ro.com (William Nolle)  
To: aprssig@tapr.org  
Subject: Have Fun

Gerry i'm taking you advice and am UNSUBSCRIBING to the APRS sig for the simple reason that just now out of 19 messages received 2 were actually related to APRS and i believe you are the surst of the lot. You were the one that made statements to me to keep things on topic and to keep the messages short because some users paid for having to download these messages. Well this must be just for other people and not you. We have all learned how well versed you are on all subjects, but this subject is getting out of hand. There are many other places on the internet better suited for discussions like what's going on here. I bet there are even groups on the net where you could find out how to build a cruise missile, but still don't see where this is related to aprs unless Bob is going to include a missile guidance system into aprs. This is why i have to say this to Gerry DO AS YOU TELL OTHERS TO DO. So it has been great while it lasted and thanks to those that have supported me in what little i have done to support aprs. It's been great and Merry Christmas and a Happy Newyear to all.

Bill KE4EER  
ke4eer@ro.com

From rtucker@crasher2.ttgciitn.com Thu Dec 21 06:46:47 1995  
Received: from insosf1.netins.net (ttgciitn@insosf1.netins.net [167.142.225.5]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id GAA11168 for <aprssig@tapr.org>; Thu, 21 Dec 1995 06:46:45 -0600 (CST)  
Received: (from ttgciitn@localhost) by insosf1.netins.net id GAA22233 for aprssig@tapr.org; Thu, 21 Dec 1995 06:46:41 -0600  
Received: (from rtucker@localhost) by crasher2.ttgciitn.com (8.6.12/8.6.12) id GAA20865 for aprssig@tapr.org; Thu, 21 Dec 1995 06:41:13 -0600  
From: Ryan Tucker <rtucker@crasher2.ttgciitn.com>  
Message-Id: <199512211241.GAA20865@crasher2.ttgciitn.com>  
Subject: Re: [APRSSIG:5430] Re: Error Ellips  
To: aprssig@tapr.org  
Date: Thu, 21 Dec 1995 06:41:09 -0600 (CST)  
In-Reply-To: <9512210338.AA03068@omnifest.uwm.edu> from "David W. Barrow III" at Dec 20, 95 09:46:01 pm  
X-Mailer: ELM [version 2.4 PL24]  
MIME-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit

Thus spake David W. Barrow III, splattered hither:

> Let me see if I have this right....  
>       One branch of the government PURPOSEFULLY induces GPS error  
> and then  
>       The Coast Guard beacons the corrections FREE to those that have  
>       a beacon reciever.  
>  
> Did I understand that correctly????   'Cause it SURE doesn't make a whole  
> lot of sense.

Who said the government made a lot of sense?

73 de NOPBS... Merry Christmas to you too, Newt and Bill.

--

Ryan Tucker	ttgcitn.com owner
rtucker@ttgcitn.com	ann-arbor.mi.us.undernet.org irc admin
http://www.ttgcitn.com	netins.net user development group

From schiers@ibm.net Thu Dec 21 06:55:13 1995  
Received: from smtp-gw01.ny.us.ibm.net ([165.87.194.252]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id GAA11510 for <aprssig@tapir.org>; Thu, 21 Dec 1995 06:55:10 -0600 (CST)  
Received: (from uucp@localhost) by smtp-gw01.ny.us.ibm.net (8.6.9/8.6.9) id MAA16648 for <aprssig@tapir.org>; Thu, 21 Dec 1995 12:55:08 GMT  
Message-Id: <199512211255.MAA16648@smtp-gw01.ny.us.ibm.net>  
Received: from slip230-98.mo.us.ibm.net(129.37.230.98) by smtp-gw01.ny.us.ibm.net via smap (V1.3mjr)  
id smaL00DFW; Thu Dec 21 12:54:57 1995  
Date: Thu, 21 Dec 95 12:42:46 EST  
From: schiers@ibm.net (hasan schiers)  
Reply-To: schiers@ibm.net (hasan schiers)  
To: aprssig@tapir.org  
X-Mailer: hasan schiers's PMMail v1.1  
Subject: A little discipline, please.

On Thu, 21 Dec 1995 01:03:10 -0600 (CST) you wrote:

The topic at hand is properly noted on the  
>SUBJECT line. If you do not care to read about "GPS and Missiles" then skip  
>past articles labeled with this subject line. It's that simple. Sooner or  
>later the people engaged in this digression will once again return to topics  
>more akin to APRS.

Many of us have to pay to download. I don't have a local phone number to the internet, so I pay for every byte downloaded. Off topic silliness also wastes the bandwidth available on the internet. So from a resource point of view, this GPS missile stuff is a complete waste. Deleting by subject saves no money or bandwidth. Posting publicly opinions about off topic messages is appropriate, as it helps educate contributors to the list. So while you advise to wait the digression out, many of us are paying for it. I can't tell you how much we appreciate your cavalier assessment <g>.

If this list were moderated, most of the gps/missile message contributors would have been "hatted" and that would be the end of it. Public education and a wee bit of consideration would solve the problem. Giving someone a hard time for doing what is appropriate for the list is hardly helpful. 73,

robert "hasan" schiers  
Ham Radio Packet: n0an@n0an.ia.usa.noam

From schiers@ibm.net Thu Dec 21 06:55:23 1995  
Received: from smtp-gw01.ny.us.ibm.net ([165.87.194.252]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id GAA11528 for <aprssig@tapir.org>; Thu, 21 Dec 1995 06:55:20 -0600 (CST)  
Received: (from uucp@localhost) by smtp-gw01.ny.us.ibm.net (8.6.9/8.6.9) id MAA09485 for <aprssig@tapir.org>; Thu, 21 Dec 1995 12:55:18 GMT  
Message-Id: <199512211255.MAA09485@smtp-gw01.ny.us.ibm.net>  
Received: from slip230-98.mo.us.ibm.net(129.37.230.98) by smtp-gw01.ny.us.ibm.net via smap (V1.3mjr)  
id smaf%CrX; Thu Dec 21 12:55:07 1995  
Date: Thu, 21 Dec 95 12:45:13 EST  
From: schiers@ibm.net (hasan schiers)  
Reply-To: schiers@ibm.net (hasan schiers)  
To: aprssig@tapir.org  
X-Mailer: hasan schiers's PMMail v1.1  
Subject: Re: [APRSSIG:5436] Re: GPS and missiles

On Wed, 20 Dec 1995 23:43:42 -0600 (CST) you wrote:

All this missile crap and politics has no buisness  
>in an APRS mailing list. Just because something is remotely related to APRS  
>does not mean that this is the best place to discuss it.  
>

Amen! And because your comments are so rational and on point, I am  
sure you will be flamed by someone <vbg> 73,

robert "hasan" schiers  
Ham Radio Packet: n0an@n0an.ia.usa.noam

From hammock@tis.telos.com Thu Dec 21 08:05:51 1995  
Received: from tis.telos.com (tis.telos.com [198.116.7.53]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id IAA14118 for <aprssig@tapir.org>; Thu, 21 Dec 1995 08:05:49 -0600 (CST)  
Received: (hammock@localhost) by tis.telos.com (8.6.12/8.6.4) id JAA20524; Thu, 21 Dec 1995 09:07:39 -0500  
Date: Thu, 21 Dec 1995 09:07:39 -0500 (EST)  
From: Randy Hammock <hammock@tis.telos.com>  
To: aprssig@tapir.org  
Subject: Re: Error Ellips  
In-Reply-To: <199512211241.GAA20865@crasher2.ttgcitn.com>  
Message-ID: <Pine.SOL.3.91.951221090315.20409A-100000@zentropa>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 21 Dec 1995, Ryan Tucker wrote:

> Thus spake David W. Barrow III, splattered hither:  
> > Let me see if I have this right....  
> > One branch of the government PURPOSEFULLY induces GPS error  
> > and then  
> > The Coast Guard beacons the corrections FREE to those that have  
> > a beacon reciever.



> >  
> > Did I understand that correctly???? 'Cause it SURE doesn't make a whole  
> > lot of sense.  
>  
> Who said the government made a lot of sense?

Dont forget the FAA. Haven't they proposed a system to improve GPS accuracy for aircraft use? That makes two govt agencies undoing what another has done.

--

Randy Hammock KC6HUR	Randy.Hammock@Telos.com
Telos Information Systems - EDOS	hammock@gmd.trw.com
7474 Greenway Center Drive; Suite 400	Voice: +1 301 507-5904
Greenbelt, Maryland 20770	FAX: +1 301 507-5892

From gerry@cs.tamu.edu Thu Dec 21 09:06:14 1995

Received: from cs.tamu.edu (clavin.cs.tamu.edu [128.194.130.106]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id JAA15857 for <aprssig@tapir.org>; Thu, 21 Dec 1995 09:06:11 -0600 (CST)

Received: from solar.cs.tamu.edu (2961@solar.cs.tamu.edu [128.194.132.1]) by cs.tamu.edu (8.6.10/8.6.4) with ESMTP id JAA18026; Thu, 21 Dec 1995 09:05:28 -0600  
From: Gerald J Creager <gerry@cs.tamu.edu>

Received: (gerry@localhost) by solar.cs.tamu.edu (8.6.10/8.6.4) id JAA03563; Thu, 21 Dec 1995 09:05:23 -0600

Message-Id: <199512211505.JAA03563@solar.cs.tamu.edu>

Subject: Re: [APRSSIG:5443] Have Fun

To: aprssig@tapir.org

Date: Thu, 21 Dec 1995 09:05:23 -0600 (CST)

Cc: ke4eer@ro.com

In-Reply-To: <199512211222.GAA23849@sh1.ro.com> from "William Nolle" at Dec 21, 95 05:33:08 am

X-Mailer: ELM [version 2.4 PL24]

Content-Type: text

Bill, and others...

It was NOT my intent to drive you or anyone else from a list. What I had done was probably to respond sharply last night after a long day at the office, to what I interpreted as a direct attack.

For the record, whe I see a question, I tend to answer it; when I see an apparent error in conception correct it. Those answers are not always short.

GPS is central to the theme of APRS. We have frequently complained or lamented the continued use of Selective Availability, and wished for ways to do something about it. This has occaasionally led us to corrections techniques.

I've recently spent most waking hours working on a low-cost DGPS base. What I sent out was based a lot on that work. When it's ready, we expect to have the proverbial \$500 DGPS station... based on parts and a little software... for research and other "scatter 'em where you need 'em" technology. This is

something that \*will\* be practical for a local APRS network.

I did make a couple of specious comments regarding nuclear devices and missiles. These were off the track of the group. They were also in response to someone else's comments. Since the comments were brief, and I \*was\* trying to make a joke of them, I didn't see too many problems therein.

I'd prefer to not see you leave the mailer. You've come up with a lot of good work and we need enthusiastic folks to stay involved in this hobby. We also need to be able to disagree occasionally without the heat and light that's been exhibited here.

I'd really have to agree with a couple of comments I've seen lately... scan the Subject: line, and if you don't want to read it, then kill it. I've a whole group I do that with because I don't want to unsubscribe for the next 4 weeks, but I really don't have time to read their stuff! I usually try to keep my replies to the subject at hand. Sometimes I digress... I'm a story-teller at heart, and it shows. But my real intent is to get the answer across and go on.

Regards, and Happy Holidays,  
Gerry

ps... I'll be incommunicado for the next week, visiting my wife and completely without a modem or dialup facilities (unless there's something under the tree I don't know about)

--

Gerry Creager N5JXS	* SAREX Co-Investigator
gerry@cs.tamu.edu	* A little radio that lets kids talk
	* to astronauts, and smile

\*\*\*\*\*

From dbarrow@omnifest.uwm.edu Thu Dec 21 09:48:18 1995  
Received: from uwm.edu (uwm.edu [129.89.6.2]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id JAA17201 for <aprssig@tapir.org>; Thu, 21 Dec 1995 09:48:15 -0600 (CST)  
Received: from omnifest.uwm.edu (omnifest.uwm.edu [129.89.70.58]) by uwm.edu (8.7.1/8.6.9) with SMTP id JAA08245 for <aprssig@tapir.org>; Thu, 21 Dec 1995 09:48:08 -0600 (CST)  
Received: by omnifest.uwm.edu; (5.65/1.1.8.2/17Sep94-0940PM)  
id AA29867; Thu, 21 Dec 1995 09:48:08 -0600  
Date: Thu, 21 Dec 1995 09:48:08 -0600  
From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>  
Message-Id: <9512211548.AA29867@omnifest.uwm.edu>  
To: aprssig@tapir.org  
Subject: Re: [APRSSIG:5435] Re: Error Ellips

Gerry,

The Coast Guard and I have similar interests. I would like to know, reasonably precisely, where my vehicle is.

Does LoranC have similar inaccuracy built in?

Do I understand that Europeans are staying with LoranC to avoid the US's "fiddle factor"?

Thanks VERY MUCH for educating the rest of us.

CUL & 73 de Dave

```
=====
David W. Barrow III * Amateur Radio:N9UNR * Internet:dbarrow@omnifest.uwm.edu
U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin 53095-9603
Ma Bell:(414) 375-2667 * Amateur Packet:N9UNR@N9PBY.EN63BI.WI.USA.NOAM
Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham
=====
```

Smith & Wesson - the original "point & click" interface.

```
From jleonard@tbcnet.com Thu Dec 21 10:00:41 1995
Received: from tbc2.tbcnet.com (root@tbc2.tbcnet.com [205.199.1.5]) by
sys1.tapr.org (8.7.2/8.7.2) with SMTP id KAA17508 for <aprssig@tapr.org>; Thu, 21
Dec 1995 10:00:38 -0600 (CST)
Received: from [205.199.1.129] (jbleonard.tbcnet.com [205.199.1.129]) by
tbc2.tbcnet.com (8.6.12/8.6.12) with SMTP id KAA09542 for <aprssig@tapr.org>; Thu,
21 Dec 1995 10:00:33 -0600
Message-Id: <199512211600.KAA09542@tbc2.tbcnet.com>
To: APRS SIG <aprssig@tapr.org>
Subject: APRS/S Claus
Date: Thu, 21 Dec 95 10:00:07 -0500
From: "John B. Leonard" <jleonard@tbcnet.com>
X-Mailer: E-Mail Connection v2.5.03
```

-- [ From: John B. Leonard \* EMC.Ver #2.5.02 ] --

Just saw on CNN that FAA has approved flight plan for one Claus, S.

Pilot - Claus, S  
Age - Unknown  
A/C Type - Sleigh  
TAS - 350 Kts  
Alt (AGL) - Rooftop height  
Departure Time - When Kid are Asleep  
Departure Point - North Pole

Can we drop the ICBM/Terrorist/Tom C. discussion long enuf to figure out if there's anyway the APRS group can assist the FAA with tracking this flight?

It would probably score some points with public, and give us something ON THE SUBJECT to discuss. Also would be a good drill.

Personally, I would REALLY like to see something coordinated thru the SIG, as opposed to various fragmented groups. But beggars can't be...well, you know.

73's Barry

--

-----

Disclaimer: Sometimes I don't know what I'm talking about. You'd better check on this.  
My mouth usually runs on after my knowledge on a subject runs out. It's a man, macho kinda thing.

J Barry Leonard  
DeKalb IL  
E-MAIL: jleonard@tbcnet.com

From hammock@tis.telos.com Thu Dec 21 10:31:28 1995  
Received: from tis.telos.com (tis.telos.com [198.116.7.53]) by sys1.tappr.org (8.7.2/8.7.2) with SMTP id KAA18623 for <APRSSIG@tappr.org>; Thu, 21 Dec 1995 10:31:25 -0600 (CST)  
Received: (hammock@localhost) by tis.telos.com (8.6.12/8.6.4) id LAA20885; Thu, 21 Dec 1995 11:33:14 -0500  
Date: Thu, 21 Dec 1995 11:33:13 -0500 (EST)  
From: Randy Hammock <hammock@tis.telos.com>  
To: APRSSIG@tappr.org  
Subject: APRS over voice repeaters  
Message-ID: <Pine.SOL.3.91.951221110632.20548A@zentropa>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I don't know if anyone has done much listening to the public service bands, but it seems that the method used by the PS people for automatic station ID would work for APRS via a voice repeater. This being, each time the officer keys his mic, the ID is sent before he starts talking (do they use digital delay to hold back the voice during ID or does the officer have to wait before speaking). The twist comes in that it seems the ID is sent without PL while voice has PL. I can listen to the Howard County police with CTCSS turned on and hear all the chatter but not the annoying braps of the auto IDs. Maybe I'm just hearing the pickup delay of my PL decoder, but it does seem like a way send data with out annoying the users. Of course the same principle could be applied to a trailing data burst.

--

Randy Hammock KC6HUR	Randy.Hammock@Telos.com
Telos Information Systems - EDOS	hammock@gmd.trw.com
7474 Greenway Center Drive; Suite 400	Voice: +1 301 507-5904
Greenbelt, Maryland 20770	FAX: +1 301 507-5892

From sproul@ap.org Thu Dec 21 10:47:44 1995  
Received: from ap.org (eos.ap.org [165.1.6.1]) by sys1.tappr.org (8.7.2/8.7.2) with SMTP id KAA19070 for <aprssig@tappr.org>; Thu, 21 Dec 1995 10:47:41 -0600 (CST)  
Received: from [165.1.27.20] by ap.org (4.1/SMI-4.1) id AA17924; Thu, 21 Dec 95 11:43:59 EST  
X-Sender: sproul@165.1.6.1  
Message-Id: <v02130500acff3971ec11@[165.1.27.20]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 21 Dec 1995 11:49:38 -0500

To: aprssig@tapr.org  
From: sproul@ap.org (Mark Sproul)  
Subject: WinAPRS beta

WinAPRS beta status

As promised, we will be releasing WinAPRS beta by Christmas, however, the first release will be to about a dozen individuals.

We are restricting the first release so that we can keep on top of things for the first try. Once we have had a couple of weeks to get feed back from these people then we will be releasing a general beta version.

Here are a few notes about WinAPRS:

WinAPRS is going far better than I could have even imagined. I have far more features implemented than I expected by time for beta release. The common source implementation with MacAPRS is working out very well. The development environment that I am using, CodeWarrior, which allows me to write, compile, and debug Windows programs from my Mac has been working great.

WinAPRS is a "WINDOWS" application, it is NOT a DOS application, so the user interface follows Windows guide lines.

WinAPRS is a Win32 application. This means that it runs under Windows95 and WindowsNT. To run under Windows3.1, the Win32S DLL will be required. Win32S is free and available off of the internet. See the on-line documentation for more info about Win32S.

WinAPRS uses the MacAPRS file format AND the DOS-APRS file format. This means that all of the hi-resolution maps for MacAPRS will work directly AND all of the maps that have been made by APRS users.

I have started some documentation, it can be seen at  
<http://www-ns.rutgers.edu/~ksproul/APRS/>

We will keep you informed about the progress, keep watching the Web page for updates.

Mark Sproul  
KB2ICI

From AA8JK@aol.com Thu Dec 21 11:22:15 1995  
Received: from mail04.mail.aol.com (mail04.mail.aol.com [152.163.172.53]) by  
sys1.tapr.org (8.7.2/8.7.2) with SMTP id LAA20543 for <aprssig@tapr.org>; Thu, 21  
Dec 1995 11:22:13 -0600 (CST)  
From: AA8JK@aol.com  
Received: by mail04.mail.aol.com (8.6.12/8.6.12) id MAA26095 for aprssig@tapr.org;  
Thu, 21 Dec 1995 12:21:41 -0500  
Date: Thu, 21 Dec 1995 12:21:41 -0500  
Message-ID: <951221122141\_96275129@mail04.mail.aol.com>  
To: aprssig@tapr.org  
Subject: ???APRS Auroral-Zone Propagation Study???

Hello,

While looking through the January 1996 QST (looking for the life insurance ad) I read "The World Above 50 MHZ" on page 96. The article talks about Auroral-Zone Propagation and the possibility of some unusual propagation in the Arctic region.

The article states, "It might well be a useful exercise for 2-meter stations in the auroral-zone spaced 1000 to 2000 km apart to organize regular tests. As has already been demonstrated, low-powered FM stations can be effective (over large distances in the Arctic region). This suggests some more automatic means, such as packet, could provide an ideal adjunct to auroral-zone studies at 144 MHZ and even higher"

I have translated this into the following: APRS, we need your help!

The article further states that there have been some beacons placed up north to study the different types of propagation our friends have there. The problem with the a normal CW beacon is a person listening to the beacon is necessary. As you know, a person can't be listening to all the beacons, all the time. Here is where APRS comes to the rescue. Using the Micro Interface Module (MIM) and some low cost, low maintenance radios, a study of the Arctic propagation would be a great test and a great demonstration of one of the many uses of APRS. Studies of different bands could also be done.

I would find it interesting and fun to be part of a study with my favorite activity in ham radio being center stage. A project like this one could bring out other refinements of APRS. Bob's idea of being able to call a computer with APRS running and downloading the different reports (position and heard logs) might be something to investigate for remote sites. By uploading the same files to the Internet from a dedicated APRS information gathering station in the Arctic, even someone in Florida or Nevada could help with the study. As with most APRS related ideas, the possibilities are endless.

Please read the article and then let me know what you think. Can this be done? What might be the limitations? Is there anyone else that might be interested? Do we have people from Alaska and/or Northern Canada on the APRSSIG?

Thank you for you time.

73,

Steve Caesar AA8JK  
Tri-state APRS Working Group

AA8JK@aol.com

From ndavis@spider.lloyd.com Thu Dec 21 11:30:37 1995  
Received: from spider.lloyd.com (root@spider.lloyd.com [158.222.1.5]) by  
sys1.tapr.org (8.7.2/8.7.2) with SMTP id LAA20690 for <aprssig@tapr.org>; Thu, 21  
Dec 1995 11:30:35 -0600 (CST)  
Received: from dial-1-14.lloyd.com by spider.lloyd.com with smtp  
(Smail3.1.29.1 #5) id m0tSooq-000Tr0C; Thu, 21 Dec 95 09:30 PST  
Message-Id: <m0tSooq-000Tr0C@spider.lloyd.com>  
X-Sender: ndavis@spider.lloyd.com  
X-Mailer: Windows Eudora Version 1.4.4  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 21 Dec 1995 09:25:34 +0000  
To: aprssig@tapr.org  
From: ndavis@spider.lloyd.com (Norman Davis)  
Subject: APRS not working on com 3

I installed a new VLB enhanced IO board in the machine and I can get  
everything to work on com 3 but aprs. Anyone have any Ideas.

Norm WB6SHI  
Norman Davis WB6SHI

Email ndavis@spider.lloyd.com  
72057,1722@compuserve.com  
I love Hot cars,Plans and  
Trains.  
Basicly anything that moves.

From Paul\_Moller@csg.mot.com Thu Dec 21 12:06:05 1995  
Received: from motgate.mot.com (motgate.mot.com [129.188.136.100]) by  
sys1.tapr.org (8.7.2/8.7.2) with ESMTP id MAA22269 for <aprssig@tapr.org>; Thu, 21  
Dec 1995 12:06:02 -0600 (CST)  
Received: from pobox.mot.com (pobox.mot.com [129.188.137.100]) by motgate.mot.com  
(8.7.1/8.6.10/MOT-3.8) with ESMTP id MAA03966 for <aprssig@tapr.org>; Thu, 21 Dec  
1995 12:05:28 -0600 (CST)  
Received: from OAMPC10.csg.mot.com (OAMPC10.csg.mot.com [144.188.134.33]) by  
pobox.mot.com (8.7.1/8.6.10/MOT-3.8) with SMTP id MAA19751 for <aprssig@tapr.org>;  
Thu, 21 Dec 1995 12:05:27 -0600 (CST)  
Received: from PaulM\_PC.csg.mot.com (PaulM\_PC.csg.mot.com [144.188.36.8]) by  
OAMPC10.csg.mot.com (8.6.8.1/8.6.6) with SMTP id MAA29090 for <aprssig@tapr.org>;  
Thu, 21 Dec 1995 12:12:59 -0600  
Message-Id: <2.2b10.32.19951221180606.0072b36c@144.188.134.33>  
X-Sender: mollpj@144.188.134.33

X-Mailer: Windows Eudora Pro Version 2.2b10 (32)  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 21 Dec 1995 12:06:06 -0600  
To: aprssig@tapr.org  
From: Paul Moller <Paul\_Moller@csg.mot.com>  
Subject: APRS on voice repeaters

It appears to me that this sig needs a new topic now that GPS and bombs is slowing. So here goes...

I would like to open a discussion on the topic of APRS information via voice repeaters. Some topics are: What data rate is advisable? Is the repeater being used as a digi, a frequency transponder, or just a powerful transmitter/ sensitive receiver connected to a good antenna that can hear stuff from a long way away? How does one get around the problem that the repeaters are not on the APRS freq in the local area? Does that mean there are multiple APRS freqs in one local area, and they are different from those in the next city over? Well my questions can go on for a while.

What do you think?

>I don't know if anyone has done much listening to the public service  
>bands, but it seems that the method used by the PS people for automatic  
>station ID would work for APRS via a voice repeater.

Paul, WD9ABE

Maybe closer to GLNTC than anybody (5 miles)

From munseyj@enterprise.america.com Thu Dec 21 12:23:37 1995  
Received: from enterprise.america.com (root@enterprise.america.com  
[199.170.102.100]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id MAA23047 for  
<aprssig@tapr.org>; Thu, 21 Dec 1995 12:23:30 -0600 (CST)  
Received: from .enterprise.america.com by enterprise.america.com with smtp  
(Smail3.1.29.1 #9) id m0tSpeF-001w21C; Thu, 21 Dec 95 13:23 EST  
Date: Thu, 21 Dec 95 14:21:38 EST  
From: John Munsey <munseyj@enterprise.america.com>  
Subject: RE: [APRSSIG:5440] Re: GPS and missiles  
To: aprssig@tapr.org  
X-Mailer: Chameleon - TCP/IP for Windows by NetManage, Inc.  
Message-ID: <Chameleon.4.01.2.951221142244.munseyj@enterprise.america.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Sorry to disagree with so many folks but I for one have found the discussions of GPS and SA very helpful and interesting. It's good to know all we can about the tools we use.

-----  
John Munsey KB3GK  
E-mail: munseyj@america.com  
12/21/95 14:21:38  
-----



From n2iph@mci.newscorp.com Thu Dec 21 12:39:23 1995  
Received: from camus-s1.delphi.com (root@camus-s1.delphi.com [206.15.105.43]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id MAA23696 for <aprssig@tapir.org>; Thu, 21 Dec 1995 12:39:17 -0600 (CST)  
Received: from N2IPH2 (slip109-106.bb.delphi.com [206.15.109.106]) by camus-s1.delphi.com (8.7.1/) with SMTP id NAA01176 for <aprssig@tapir.org>; Thu, 21 Dec 1995 13:33:45 -0500 (EST)  
Date: Thu, 21 Dec 1995 13:33:45 -0500 (EST)  
Message-Id: <199512211833.NAA01176@camus-s1.delphi.com>  
X-Sender: n2iph@pop.mci.newscorp.com  
X-Mailer: Windows Mail Version 2.1.2  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: aprssig@tapir.org  
From: BOB DERDERIAN <n2iph@mci.newscorp.com>  
Subject: Santa tracking Net

Hello, all

I like Barrys' idea of a Santa tracking net on APRS. I WOULD be a good way to show off APRS capabilities to the public, etc and have some fun at the same time. Also a good way to introduce kids to Amateur Radio. Coordination thru the SIG seems the best way to go. Someone just need to start uplinking the object and others can grab it and steer Santa to their neighborhood, hi-hi. Bob(APR), is it possible to use(or is there imbedded in APRS an appropriate symbol that we may not be aware of?

To Keith and Mark(MAC/Win APRS): Are MACAPRS and/or WinAPRS using true .ico files to display symbols on the maps? And if so can a user tehcn create his own .ico to assign to a symbol or add to the symbol list? This would allow users to have a little creativity and personality in their copy of the program and allow custom symbols to be generated for special events, etc.

Happy Holidays to all, and to all a good night.

73, Bob

NNNN

From brad@ecst.csuchico.edu Thu Dec 21 12:48:37 1995  
Received: from abyss.ecst.csuchico.edu (brad@abyss.ecst.csuchico.edu [132.241.1.34]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id MAA24136 for <aprssig@tapir.org>; Thu, 21 Dec 1995 12:48:31 -0600 (CST)  
Received: (from brad@localhost) by abyss.ecst.csuchico.edu (8.6.12/8.6.10) id KAA10849; Thu, 21 Dec 1995 10:48:21 -0800  
Date: Thu, 21 Dec 1995 10:48:20 -0800 (PST)  
From: Bradley Lee Ambers <brad@ecst.csuchico.edu>  
To: aprssig@tapir.org  
cc: aprssig@tapir.org  
Subject: Re: [APRSSIG:5443] Have Fun  
In-Reply-To: <199512211222.GAA23849@sh1.ro.com>  
Message-ID: <Pine.HPP.3.91.951221104329.10304C-100000@abyss.ecst.csuchico.edu>

MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

AMEN...this sig has turned into a place for garbage...is there no imagination out there do you all have to continue to be a dead horse.

Come on people take it somewhere else..this is not a free for all and it is really getting tire some for us who really enjoy APRS and it's features. By the way I am familiar with unsubscribe and the delete button. Mine (delete button has been replaced twice because of all the use it gets here on this sig) gets plenty of use here. Oh yes and I have been playing with BOB's invention for over a year and have been a subscriber since its existance (the sig that is) 73 all and have fun you sure know how to destroy something fast..

Brad@ecst.csuchico.edu  
WA6ZKM/NNN0TVG/NNN0ASE FIVE NCA

From alanwc7r@primenet.com Thu Dec 21 12:58:15 1995  
Received: from mailhost1.primenet.com (mailhost1.primenet.com [198.68.32.51]) by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id MAA24288 for <aprssig@tapr.org>; Thu, 21 Dec 1995 12:58:12 -0600 (CST)  
Received: from usr3.primenet.com (root@usr3.primenet.com [198.68.32.13]) by mailhost1.primenet.com (8.7.1/8.7.1) with ESMTP id LAA24872 for <aprssig@tapr.org>; Thu, 21 Dec 1995 11:58:02 -0700 (MST)  
Received: from Primenet.primenet.com (ip207.prc.primenet.com [204.212.56.207]) by usr3.primenet.com (8.7.1/8.7.1) with SMTP id LAA06239 for <aprssig@tapr.org>; Thu, 21 Dec 1995 11:58:02 -0700 (MST)  
Message-Id: <199512211858.LAA06239@usr3.primenet.com>  
X-Sender: alanwc7r@primenet.com  
X-Mailer: Windows Eudora Light Version 1.5.2  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 21 Dec 1995 11:57:53 -0700  
To: aprssig@tapr.org  
From: "Alan K. Unangst" <alanwc7r@primenet.com>  
Subject: Re: [APRSSIG:5452] WinAPRS beta

I WOULD REALLY LIKE TO BE IN ON THE BETA TEST! Iam. not only into APRS, but also, deeply involved in Windows95. I even "iron out bugs" for the gand here in Northern Arizona. I think that I can be of assistance. Please let me know if I can help.

Sincerely,

Alan, WC7R

alanwc7r@primenet.com

At 11:00 AM 12/21/95 -0600, you wrote:

>WinAPRS beta status  
>  
>As promised, we will be releasing WinAPRS beta by Christmas, however, the  
>first release will be to about a dozen individuals.  
>  
>We are restricting the first release so that we can keep on top of things  
>for the first try. Once we have had a couple of weeks to get feed back from  
>these people then we will be releasing a general beta version.  
>  
>Here are a few notes about WinAPRS:  
>  
>      WinAPRS is going far better than I could have even imagined. I  
>have far more  
>      features implemented that I expected by time for beta release. The  
>common source  
>      implementation with MacAPRS is working out very well. The  
>development environment  
>      that I am using, CodeWarrior, which allows me to write, compile,  
>and debug Windows  
>      programs from my Mac has been working great.  
>  
>      WinAPRS is a "WINDOWS" application, it is NOT a DOS application, so  
>the user  
>      interface follows Windows guide lines.  
>  
>      WinAPRS is a Win32 application. This means that it runs under  
>Windows95 and  
>      WindowsNT. To run under Windows3.1, the Win32S DLL will be  
>required. Win32S is  
>      free and available off of the internet. See the on-line  
>documentation for more  
>      info about Win32S.  
>  
>      WinAPRS uses the MacAPRS file format AND the DOS-APRS file format.  
>This means that  
>      all of the hi-resolution maps for MacAPRS will work directly AND  
>all of the maps  
>      that have been made by APRS users.  
>  
>      I have started some documentation, it can be seen at  
>      <http://www-ns.rutgers.edu/~ksproul/APRS/>  
>  
>  
>We will keep you informed about the progress, keep watching the Web page  
>for updates.  
>  
>Mark Sproul  
>KB2ICI  
>  
>  
>  
>  
Alan K. Unangst

From TOMB@avoca.nwscc.sea06.navy.mil Thu Dec 21 13:20:15 1995  
Received: from cobra.nwscc.sea06.navy.mil (cobra.nwscc.sea06.navy.mil [130.163.65.90]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id NAA25286 for <aprssig@tapir.org>; Thu, 21 Dec 1995 13:20:09 -0600 (CST)  
Received: from avoca.nwscc.sea06.navy.mil (AVOCA.nwscc.sea06.navy.mil [130.163.8.61]) by cobra.nwscc.sea06.navy.mil (8.6.12/8.6.12) with ESMTP id OAA18435 for <aprssig@tapir.org>; Thu, 21 Dec 1995 14:19:59 -0500  
Received: from AVOCA/SpoolDir by avoca.nwscc.sea06.navy.mil (Mercury 1.21); 21 Dec 95 14:19:49 -0500 (EST)  
Received: from SpoolDir by AVOCA (Mercury 1.21); 21 Dec 95 14:19:30 -0500 (EST)  
To: aprssig@tapir.org  
From: "Thomas H. Busch" <TOMB@avoca.nwscc.sea06.navy.mil>  
Organization: Systems Engineering Department  
Date: Thu, 21 Dec 1995 14:19:26 -0500 (EST)  
Subject: Re: [APRSSIG:5455] APRS on voice repeaters  
Priority: normal  
X-mailer: WinPMail v1.0 (R2)  
Message-ID: <2EEEC8E6AC7@avoca.nwscc.sea06.navy.mil>

Bob has addressed this very subject.

He wrote some words about it for the 1995 ARRL Digital Communications Conference, and also spoke about it at the Hamvention.

I think what will be required is a DCD circuit that will blank the repeater output audio and feed it into a separate transmitter. That way, you don't irritate the voice users.

From markeyj@syncorp.com Thu Dec 21 13:51:12 1995  
Received: from uu7.psi.com (uu7.psi.com [38.8.39.2]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id NAA26447 for <aprssig@tapir.org>; Thu, 21 Dec 1995 13:51:09 -0600 (CST)  
Received: from syncorp.com by uu7.psi.com (5.65b/4.0.940727-PSI/PSINet) via UUCP; id AA10262 for ; Thu, 21 Dec 95 14:42:44 -0500  
Message-Id: <9512211942.AA10262@uu7.psi.com>  
Date: 21 Dec 1995 14:31:49 -0500  
From: "Markey, John" <markeyj@syncorp.com>  
Subject: RE: [APRSSIG:5421] Re: GPS and missiles  
Return-Receipt-To: "Markey, John" <markeyj@syncorp.com>  
To: aprssig@tapir.org

AAAAARgh

From bruninga@nadm.navy.mil Thu Dec 21 14:00:50 1995  
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id OAA26664 for <aprssig@tapir.org>; Thu, 21 Dec 1995 14:00:48 -0600 (CST)  
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id PAA18003; Thu, 21 Dec 1995 15:01:14 -0500  
Date: Thu, 21 Dec 1995 15:01:13 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>

To: aprssig@tapr.org  
Subject: U-2000 fix... NOT  
Message-ID: <Pine.SUN.3.91.951221145615.17984A-100000@greatlakes>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

The only way I have been able to reproduce the BUFFER OVERFLOW error was to program a second PC to output the U-2000 data at 10 reports per second, and then to enter an APRS PROMPT.

Now that I can reproduce the problem, I can work on a solution. But I worked all evening and DO NOT YET HAVE A RELIABLE FIX.

I'm gonna be on XMAS travel, so the FIX will NOT come until early January. Sorry guys..

From bruninga@nadm.navy.mil Thu Dec 21 14:08:31 1995  
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id 0AA27075 for <aprssig@tapr.org>; Thu, 21 Dec 1995 14:08:28 -0600 (CST)  
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id PAA18143; Thu, 21 Dec 1995 15:08:54 -0500  
Date: Thu, 21 Dec 1995 15:08:53 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
To: aprssig@tapr.org  
Subject: Alaska APRS interest... NOT  
In-Reply-To: <951221122141\_96275129@mail04.mail.aol.com>  
Message-ID: <Pine.SUN.3.91.951221150329.17984B-100000@greatlakes>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 21 Dec 1995 AA8JK@aol.com wrote:

> Auroral-Zone Propagation and the possibility of some unusual propagation in  
> the Arctic region.  
> The article states, "It might well be a useful exercise for 2-meter stations  
> in the auroral-zone spaced 1000 to 2000 km apart to organize regular tests.  
> interested? Do we have people from Alaska and/or Northern Canada on the  
> APRSSIG?

WB4APR REPLY COMMENT: Last year, I sent a half dozen copies of APRS to all ARRL officials listed in QST in Alaska. I also invested a WEEK in doing maps of Alaska. No response so far...

From bruninga@nadm.navy.mil Thu Dec 21 14:24:17 1995  
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id 0AA27596 for <aprssig@tapr.org>; Thu, 21 Dec 1995 14:24:13 -0600 (CST)  
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id PAA18291; Thu, 21 Dec 1995 15:24:37 -0500

Date: Thu, 21 Dec 1995 15:24:36 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
To: aprssig@tapr.org  
Subject: Re: [APRSSIG:5455] APRS on voice repeaters  
In-Reply-To: <2.2b10.32.19951221180606.0072b36c@144.188.134.33>  
Message-ID: <Pine.SUN.3.91.951221151438.17984D-100000@greatlakes>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 21 Dec 1995, Paul Moller wrote:

> I would like to open a discussion on the topic of APRS information via voice  
> repeaters. Some topics are: What data rate is advisable? Is the repeater  
> being used as a digi, a frequency transponder, or just a powerful  
> transmitter/ sensitive receiver.... What about all the different FREQS?

WB4APR REPLY COMMENT: Whohaaa, All of those questions are answered in APRS\README\VOX-RPTR.txt. There is a TNC at the voice repeater listening on the voice input. It MUTES the voice repeater OUTPUT so users do NOT hear the packet and then it DIGIPEATS the POSIT on the local APRS DIGITAL FREQ. That way EVERYONE that wants to TRACK ANYONE, just monitors the APRS freq. And all mobiles can report their POSITS on their VOICE TRANSCEIVER. The APRS MIC Encoder (avail by Dayton) will interface your GPS to your MIC so that your posit goes out when you release the PTT in a 0.25 sec burst.

From bruninga@nadm.navy.mil Thu Dec 21 14:35:52 1995  
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])  
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id OAA28117 for <aprssig@tapr.org>; Thu,  
21 Dec 1995 14:35:48 -0600 (CST)  
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id  
PAA18374; Thu, 21 Dec 1995 15:36:11 -0500  
Date: Thu, 21 Dec 1995 15:36:10 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
To: aprssig@tapr.org  
Subject: Santa tracking  
In-Reply-To: <199512211833.NAA01176@camus-s1.delphi.com>  
Message-ID: <Pine.SUN.3.91.951221152513.17984E-100000@greatlakes>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

WB4APR REPLY COMMENT: All it takes is for someone in each area to put a SANTA OBJECT up in north canada. Use MAPS-PLOTS-RANGE to find out the distance to your QTH. Compute the SPEED necessary to Arrive at your QTH at the right time, and enter a COURSE. APRS will uplink the posit and everyone else will DR it until it arrives. If you want to make it appear more realistic (and for those stations that have DR off), every now and then, you can HOOK and MOVE the object to the DR'ed position.

From hammock@tis.telos.com Thu Dec 21 15:13:18 1995  
Received: from tis.telos.com (tis.telos.com [198.116.7.53]) by sys1.tappr.org (8.7.2/8.7.2) with SMTP id PAA29355 for <aprssig@tappr.org>; Thu, 21 Dec 1995 15:13:12 -0600 (CST)  
Received: (hammock@localhost) by tis.telos.com (8.6.12/8.6.4) id QAA22056; Thu, 21 Dec 1995 16:14:57 -0500  
Date: Thu, 21 Dec 1995 16:14:57 -0500 (EST)  
From: Randy Hammock <hammock@tis.telos.com>  
To: aprssig@tappr.org  
Subject: Re: [APRSSIG:5460] Re: APRS on voice repeaters  
In-Reply-To: <2EEEC8E6AC7@avoca.nwscc.sea06.navy.mil>  
Message-ID: <Pine.SOL.3.91.951221160228.21992A-100000@zentropa>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 21 Dec 1995, Thomas H. Busch wrote:

> I think what will be required is a DCD circuit that will blank the  
> repeater output audio and feed it into a separate transmitter. That  
> way, you don't irritate the voice users.

Of course there are other considerations and the two that I have in mind both have their drawbacks as well as advantages. By sending the POS packet at the end of the transmission, you run in to possibility of someone stepping on the packet through quick keying (I've heard some old HF contesters in the repeater that won't let a millisecond of silence happen). While sending the POS packet in the front of the transmission has the problem, does the operator wait or is a delay line used to time shift the audio to make up for the time of the POS packet? At anyrate we're not discussing guided missiles. dig dig dig And yes, A DCD coupled with a delay line should keep the user from hearing the brack of the POS packet.

--

Randy Hammock KC6HUR	Randy.Hammock@Telos.com
Telos Information Systems - EDOS	hammock@gmd.trw.com
7474 Greenway Center Drive; Suite 400	Voice: +1 301 507-5904
Greenbelt, Maryland 20770	FAX: +1 301 507-5892

From sproul@ap.org Thu Dec 21 15:16:55 1995  
Received: from ap.org (eos.ap.org [165.1.6.1]) by sys1.tappr.org (8.7.2/8.7.2) with SMTP id PAA29400 for <aprssig@tappr.org>; Thu, 21 Dec 1995 15:16:50 -0600 (CST)  
Received: from [165.1.27.20] by ap.org (4.1/SMI-4.1)  
id AA28052; Thu, 21 Dec 95 15:31:07 EST  
X-Sender: sproul@165.1.6.1  
Message-Id: <v02130506acff752758ed@[165.1.27.20]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 21 Dec 1995 15:36:46 -0500  
To: aprssig@tappr.org  
From: sproul@ap.org (Mark Sproul)  
Subject: WinAPRS beta

(I hate messages that are hard to read, I really tried to make the last one look correct, but it got messed up any way. So here it is again, this time hopefully, much easier to read)

#### WinAPRS beta status

As promised, we will be releasing WinAPRS beta by Christmas, however, the first release will be to about a dozen individuals.

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

!!! IMPORTANT

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

We are restricting the first release so that we can keep on top of things for the first try. Once we have had a couple of weeks to get feed back from these people then we will be releasing a general beta version.

By the end of January, we will have a generally available beta for everyone to try.

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

Here are a few notes about WinAPRS:

1) WinAPRS is going far better than I could have even imagined. I have far more features implemented that I expected by time for beta release. The common source implementation with MacAPRS is working out very well. The development environment that I am using, CodeWarrior, which allows me to write, compile, and debug Windows programs from my Mac has been working great.

2) WinAPRS is a "WINDOWS" application, it is NOT a DOS application, so the user interface follows Windows guide lines.

3) WinAPRS is a Win32 application. This means that it runs under Windows95 and WindowsNT. To run under Windows3.1, the Win32S DLL will be required. Win32S is free and available off of the internet. See the on-line documentation for more info about Win32S.

4) WinAPRS uses the MacAPRS file format AND the DOS-APRS file format. This means that all of the hi-resolution maps for MacAPRS will work directly AND all of the maps that have been made by APRS users.

5) I have started some documentation, it can be seen at  
<http://www-ns.rutgers.edu/~ksproul/APRS/>

We will keep you informed about the progress, keep watching the Web page for updates.

Mark Sproul  
KB2ICI



From sproul@ap.org Thu Dec 21 15:46:14 1995  
Received: from ap.org (eos.ap.org [165.1.6.1]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id PAA00668 for <aprssig@tapir.org>; Thu, 21 Dec 1995 15:46:11 -0600 (CST)  
Received: from [165.1.27.20] by ap.org (4.1/SMI-4.1)  
id AA00497; Thu, 21 Dec 95 16:42:23 EST  
X-Sender: sproul@165.1.6.1  
Message-Id: <v02130509acff85d74431@[165.1.27.20]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 21 Dec 1995 16:48:02 -0500  
To: aprssig@tapir.org  
From: sproul@ap.org (Mark Sproul)  
Subject: Re: [APRSSIG:5457] Santa tracking Net

>To Keith and Mark(MAC/Win APRS): Are MACAPRS and/or WinAPRS using true .ico  
>files to display symbols on the maps? And if so can a user then create his  
>own .ico to assign to a symbol or add to the symbol list? This would allow  
>users to have a little creativity and personality in their copy of the  
>program and allow custom symbols to be generated for special events, etc.  
>

Well, first Macs don't use ".ico" files, but you probably knew that.

Yes, WinAPRS uses ".ico" files, but most of them are already assigned.

BTW, I wrote a program on the Mac to take all of the ICONs we had created for the Mac and write out an ICO file for each one of them, it sure was better than redoing all of the icons (there's almost 200 of them).

Mark

From northup@sw.stratus.com Thu Dec 21 15:58:44 1995  
Received: from transfer.stratus.com (transfer.stratus.com [134.111.1.10]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id PAA01400 for <aprssig@tapir.org>; Thu, 21 Dec 1995 15:58:39 -0600 (CST)  
Received: from lectroid.sw.stratus.com (lectroid.sw.stratus.com [134.111.10.1]) by transfer.stratus.com (8.7.1/8.6.11) with ESMTP id QAA09722 for <aprssig@tapir.org>; Thu, 21 Dec 1995 16:58:35 -0500 (EST)  
Received: from blackdog.sw.stratus.com (blackdog.sw.stratus.com [134.111.10.76]) by lectroid.sw.stratus.com (8.6.11/8.6.11) with ESMTP id QAA21441 for <aprssig@tapir.org>; Thu, 21 Dec 1995 16:58:34 -0500  
Received: (from northup@localhost) by blackdog.sw.stratus.com (8.6.9/8.6.9) id QAA03311 for aprssig@tapir.org; Thu, 21 Dec 1995 16:58:33 -0500  
From: Bill Northup <northup@sw.stratus.com>  
Message-Id: <199512212158.QAA03311@blackdog.sw.stratus.com>  
Subject: A question about mobile stations.  
To: aprssig@tapir.org  
Date: Thu, 21 Dec 1995 16:58:33 -0500 (EST)  
X-Mailer: ELM [version 2.4 PL20]

Content-Type: text

Hi all

I am new to the mail list, but have been using APRS for a while. The problem that I am having is with my mobile system (gps/tnc/ht) is sending out positions, and they all get mapped. The old positions are never removed so after I have been driving for a while the whole map gets filled with my station everywhere. Do I have something set up wrong, or is this normal ?

Bill

--

Bill Northup	INTERNET:	northup@sw.stratus.com
Stratus Computer Inc.	Amateur Radio:	N1QPR
55 Fairbanks Boulevard		QRP-NE #307
Marlboro, MA 01752		NorCal #1027

From lmkeeran@ilstu.edu Thu Dec 21 16:15:36 1995  
Received: from aixa.nsys.ilstu.edu (root@aixa.nsys.ilstu.edu [138.87.7.200]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id QAA01922 for <aprssig@tapr.org>; Thu, 21 Dec 1995 16:15:33 -0600 (CST)  
Received: from i0517009.adm.ilstu.edu by aixa.nsys.ilstu.edu (AIX 3.2/UCB 5.64/4.03)  
id AA18791; Thu, 21 Dec 1995 16:14:54 -0600  
X-Sender: lmkeeran@138.87.1.2  
Message-Id: <v02120d02acff81b92aee@[138.87.2.109]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 21 Dec 1995 16:16:15 -0600  
To: aprssig@tapr.org  
From: lmkeeran@ilstu.edu (Larry Keeran)  
Subject: Re: [APRSSIG:5460] Re: APRS on voice repeaters

Our 2M repeater generates output PL (CTCSS) of 103.5 if the input has PL is 103.5  
and repeats the input without PL if a carrier squelch (CS) station uses it that way.

And we have had anti-PL installed since 1976. (and written up in 73 about that time -Jan '78) If the dx repeater user on the same frequency transmits his PL tone (107.2 for his area), the local repeater doesn't even key up. The "anti-PL" tone of 107.2 actually opens the PTT circuit. If a local station (someone stronger then the 107.2 DX station) is heard by the repeater, the capture principle applies and the "anti-PL" is defeated - closing the path for PTT to happen normally. This allows for two things: the weak dx repeater user doesn't QRM the locals and the local could point his beam to the dx repeater accessing it without QRMing the local users.

Packet does work thru the repeater nicely. We used it in emergencies for

passing ARC traffic where there wasn't digipeaters. You do have to lengthen the lead sync tone (what is it TXD?, been a while) to allow for the keyup delay. And lengthen the other parameter to prevent the reply packet from being sent too quickly before the repeater input noise burst finishes. You don't have to wait for repeater drop, just the unkey burst.

This allows the voice user to keep his transceiver "on PL" and not hear the CS (packet) station. I'll test APRS on our repeater over the next couple of weeks to see the effects and to come back with any critique. Packet \*HAS\* worked so I am not expecting any problems with APRS.

>Bob has addressed this very subject.

>

>He wrote some words about it for the 1995 ARRL Digital

>Communications Conference, and also spoke about it at the

>Hamvention.

>

>I think what will be required is a DCD circuit that will blank the

>repeater output audio and feed it into a separate transmitter. That

>way, you don't irritate the voice users.

```
\\
Larry M. Keeran ISU IS - Data Processing Equip Tech      lmkeeran@ilstu.edu
EC McLean Co-Pres CIRC-CIPRUS,Inc-APRSM-APRS k9orp.ampr.org (44.72.126.97)
wireless path: k9orp via ILGRD1      k9orp@wb9uus.ampr.org (44.72.123.97)
\\
```

From gwyn@paccomm Thu Dec 21 17:07:18 1995

Received: from paccomm.com ([163.125.30.1]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id RAA03783 for <aprssig@tapr.org>; Thu, 21 Dec 1995 17:06:48 -0600 (CST)

Received: by paccomm.com (Smail3.1.29.1 #1)

id m0tSu4M-000FPWC; Thu, 21 Dec 95 18:06 EST

Date: Thu, 21 Dec 1995 23:05:57 +0000 (GMT)

From: Gwyn Reedy <gwyn@paccomm>

To: aprssig@tapr.org

Subject: Re: [APRSSIG:5430] Re: Error Ellips

In-Reply-To: <9512210338.AA03068@omnifest.uwm.edu>

Message-ID: <Pine.LNX.3.91.951221230447.3709A-100000@paccomm>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Sounds like a compromise between the Spendocrats and the Conpublicans.

On Wed, 20 Dec 1995, David W. Barrow III wrote:

> Let me see if I have this right....

> One branch of the government PURPOSEFULLY induces GPS error

> and then

> The Coast Guard beacons the corrections FREE to those that have

> a beacon reciever.

>

> Did I understand that correctly???? 'Cause it SURE doesn't make a whole

> lot of sense.  
>  
> CUL & 73 de Dave  
> =====  
> David W. Barrow III \* Amateur Radio:N9UNR \* Internet:dbarrow@omnifest.uwm.edu  
> U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin 53095-9603  
> Ma Bell:(414) 375-2667 \* Amateur Packet:N9UNR@N9PBY.EN63BI.WI.USA.NOAM  
> Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham  
> =====  
>  
>

From bruninga@nadm.navy.mil Thu Dec 21 17:43:20 1995  
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])  
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id RAA05449 for <aprssig@tapir.org>; Thu,  
21 Dec 1995 17:40:50 -0600 (CST)  
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id  
SAA19536; Thu, 21 Dec 1995 18:39:28 -0500  
Date: Thu, 21 Dec 1995 18:39:27 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
To: aprssig@tapir.org  
Subject: APRS on the WWW  
In-Reply-To: <199512141235.GAA02338@tbc2.tbcnet.com>  
Message-ID: <Pine.SUN.3.91.951221183133.19423I-100000@greatlakes>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I finally used someone elses account to surf the web and was surprised to  
find that I did NOT need to remember any of those strange looking WWW  
addresses. I just clicked on SEARCH, entered APRS, and NETSCAPE came back  
with 40 entries... A few were Real-estate related (Annual  
Percentage Rate), but most mentioned APRS ins some form or another.

I am a NEWBEE at the WWW, but would it make sense if each of the sites  
dedicated to local APRS activity, had some kind of common thread or  
common expectations? Maybe you guys could get to gether and share some  
ideas. If nothing else, link your site to all the other sites...  
Would also be nice if you included key words like VEHICLE LOCATION, GPS  
and MOVING MAPS... etc...

I wanted to leave good words to each of the SYSOPS, but couldnt figure  
out how to do that... If you are building a Web page, be sure to add  
a box so that a browser can leave comments...

From jleonard@tbcnet.com Thu Dec 21 18:23:07 1995  
Received: from tbc2.tbcnet.com (root@tbc2.tbcnet.com [205.199.1.5]) by  
sys1.tapir.org (8.7.2/8.7.2) with SMTP id SAA09095 for <aprssig@tapir.org>; Thu, 21  
Dec 1995 18:23:04 -0600 (CST)  
Received: from [205.199.1.129] (jbleonard.tbcnet.com [205.199.1.129]) by  
tbc2.tbcnet.com (8.6.12/8.6.12) with SMTP id SAA16113 for <aprssig@tapir.org>; Thu,

21 Dec 1995 18:22:53 -0600  
Message-Id: <199512220022.SAA16113@tbc2.tbcnet.com>  
To: APRS SIG <aprssig@tapr.org>  
Subject: Santa Flight Plan  
Date: Thu, 21 Dec 95 18:22:27 -0500  
From: "John B. Leonard" <jleonard@tbcnet.com>  
X-Mailer: E-Mail Connection v2.5.03

-- [ From: John B. Leonard \* EMC.Ver #2.5.02 ] --

Ok, here's what I figure his itinerary will be to my QTH:

Departure Point - 90.00 Lat / 87.75 Long  
Arrival Point - 41.92 Lat / 87.75 Long  
Total Miles - 3318  
Time Enroute - 9.48 Hrs  
ETA - 23:00 CST 12/24/95  
ETD - 13:31 CST 12/24/95  
Speed - 350 TAS  
No stops enroute  
Ok, he'll make it to DeKalb IL in time.

--

-----  
Disclaimer: Sometimes I don't know what I'm talking  
about. You'd better check on this.  
My mouth usually runs on after my knowledge  
on a subject runs out. It's a man,  
macho kinda thing.

J Barry Leonard  
DeKalb IL  
E-MAIL: jleonard@tbcnet.com

From w5rkn@amsat.org Thu Dec 21 18:27:21 1995  
Received: from zoom.bga.com (root@zoom.bga.com [198.3.118.20]) by sys1.tapr.org  
(8.7.2/8.7.2) with SMTP id SAA09116 for <aprssig@tapr.org>; Thu, 21 Dec 1995  
18:27:19 -0600 (CST)  
Received: from [204.251.33.11] (jake-4k.ip.realtime.net [204.251.33.11]) by  
zoom.bga.com (8.6.12/8.6.10) with SMTP id SAA16475 for <aprssig@tapr.org>; Thu, 21  
Dec 1995 18:27:13 -0600  
X-Sender: rparsons@bga.com  
Message-Id: <v02130500acffab3c2312@[204.251.33.85]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 21 Dec 1995 18:27:13 -0600  
To: aprssig@tapr.org  
From: w5rkn@amsat.org (Ronald G. Parsons)  
Subject: Re: [APRSSIG:5456] Re: GPS and missiles

>Sorry to disagree with so many folks but I for one have found the discussions  
>of GPS and SA very helpful and interesting. It's good to know all we can  
>about the tools we use.

>

>-----

>John Munsey KB3GK

John, I agree with you. The more I can learn, the better.

Ron W5RKN

also:

rparsons@bga.com

From bruninga@nadn.navy.mil Thu Dec 21 19:25:04 1995

Received: from greatlakes.nadn.navy.mil (greatlakes.nadn.navy.mil [131.121.9.4])  
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id TAA11381 for <aprssig@tapr.org>; Thu,  
21 Dec 1995 19:25:01 -0600 (CST)

Received: (from bruninga@localhost) by greatlakes.nadn.navy.mil (8.6.12/8.6.12) id  
UAA19837; Thu, 21 Dec 1995 20:25:25 -0500

Date: Thu, 21 Dec 1995 20:25:25 -0500 (EST)

From: Bob Bruninga <bruninga@nadn.navy.mil>

To: aprssig@tapr.org

Subject: APRTRAK and 73 article!

Message-ID: <Pine.SUN.3.91.951221202208.19812A-100000@greatlakes>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

I just got word that 73 mag is doing a special SATELLITE issue for MARCH.

DEADLINE is 22 DEC. Tomorrow!

I need to get a copy of APRTRAK.txt to 73 mag ASAP.. CANT FIND AN ADDRESS  
anywhere or EMAIL.

Wife is picking me up in 5 minutes for 2 week trip!

If anyone wants to copy APRTRAK.txt, its in the APRTRAK\README directory...  
and send it in as an article, I would appreciate it. First person to  
successfully do so, please tell everyone else so they dont get too many  
copies! THANKS... SORRY TO USE THE SIG, but im outta time....

WB4APR REPLY COMMENT:

From barrettd@crpl.cedar-rapids.lib.ia.us Thu Dec 21 19:38:52 1995

Received: from CRPL.CEDAR-RAPIDS.LIB.IA.US (crpl.cedar-rapids.lib.ia.us  
[198.134.138.1]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id TAA11881 for

<aprssig@tapr.org>; Thu, 21 Dec 1995 19:38:47 -0600 (CST)  
Message-Id: <199512220138.TAA11881@sys1.tapr.org>  
Received: from ppp-109.cedar-rapids.lib.ia.us by CRPL.CEDAR-RAPIDS.LIB.IA.US with SMTP;

Thu, 21 Dec 1995 19:38:31 -0600 (CST)  
X-Sender: barrettd@crpl.cedar-rapids.lib.ia.us  
X-Mailer: Windows Eudora Light Version 1.5.2  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 21 Dec 1995 19:39:35 -0600  
To: aprssig@tapr.org  
From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>  
Subject: Re: [APRSSIG:5469] A question about mobile stations.

At 04:13 PM 95-12-21 -0600, you wrote:

>Hi all

>

> I am new to the mail list, but have been using APRS for a while. The  
> problem that I am having is with my mobile system (gps/tnc/ht) is  
> sending out positions, and they all get mapped. The old positions are  
> never removed so after I have been driving for a while the whole map  
> gets filled with my station everywhere. Do I have something set up  
> wrong, or is this normal ?

>

> Bill

>

>--

>

> Bill Northup	INTERNET:	northup@sw.stratus.com
> Stratus Computer Inc.	Amateur Radio:	N1QPR
> 55 Fairbanks Boulevard		QRP-NE #307
> Marlboro, MA 01752		NorCal #1027

>

>

>

Hit the spacebar and it will clear all but the last location recieved or  
paging up or down in map scale will also force a screen refresh.

-----  
David E. Barrett  
barrettd@crpl.cedar-rapids.lib.ia.us

-----  
If I can't give you a good sound reason  
I'll give you a reason that sounds good

From mwheatle@trsistemas.com Thu Dec 21 19:39:58 1995  
Received: from www.trsystems.com (www.trsystems.com [206.232.131.2]) by  
sys1.tapr.org (8.7.2/8.7.2) with SMTP id TAA11911 for <aprssig@tapr.org>; Thu, 21  
Dec 1995 19:39:55 -0600 (CST)  
Message-Id: <199512220139.TAA11911@sys1.tapr.org>  
Date: Wed, 20 Dec 1995 14:13:00 -0500  
From: "Wheatley, Maurice" <mwheatle@trsistemas.com>  
Subject: Just Starting Out Info  
To: aprssig <aprssig@tapr.org>

X-Mailer: Worldtalk (NetConnex V3.50c)/MIME

As a rank beginner on this SIG as well as APRS in general, are there any suggestions as to where to find basic information such as APRS data conventions, map data formats, etc? My interest is in writing custom windows apps using a KISS link to a TNC . Any and all help would be appreciated.

Thanks.

Moe AE4JY  
MWHEATLE@trsysteMS.com  
ae4jy.ampr.org

From moyers@ibm.net Thu Dec 21 20:48:02 1995  
Received: from smtp-gw01.ny.us.ibm.net ([165.87.194.252]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id UAA14150 for <aprssig@tapr.org>; Thu, 21 Dec 1995 20:47:59 -0600 (CST)  
Received: (from uucp@localhost) by smtp-gw01.ny.us.ibm.net (8.6.9/8.6.9) id CAA17493 for <aprssig@tapr.org>; Fri, 22 Dec 1995 02:47:54 GMT  
Message-Id: <199512220247.CAA17493@smtp-gw01.ny.us.ibm.net>  
Received: from slip166-72-241-106.tn.us.ibm.net(166.72.241.106) by smtp-gw01.ny.us.ibm.net via smap (V1.3mjr)  
id smaf0UDmb; Fri Dec 22 02:47:52 1995  
X-Mailer: Post Road Mailer (Green Edition Ver 1.03a)  
From: N4QEA <moyers@ibm.net>  
To: aprssig@tapr.org  
Date: Thu, 21 Dec 1995 21:50:40 EST  
Reply-To: N4QEA <moyers@ibm.net>  
Subject: Re: [APRSSIG:5462] U-2000 fix... NOT

\*\* Reply to note from Bob Bruninga <bruninga@nadn.navy.mil> 12/21/95 2:13pm -0600

> The only way I have been able to reproduce the BUFFER OVERFLOW error was  
> to program a second PC to output the U-2000 data at 10 reports per  
> second, and then to enter an APRS PROMPT.  
>

Interesting discovery. That would explain why it isn't affecting everybody. Those of us with a 16550 uart buffer the data because APRS isn't requesting it all the time. So when that com port is polled it has several lines of buffered data?? HUMMMMM let me see if I can figure out how to turn the buffering off on the 16550, I used to have a small com that would do that.

73 Bob, and TNX once again

> I'm gonna be on XMAS travel, so the FIX will NOT come until early  
> January. Sorry guys..



I'm not sorry, every time you go on a trip more gets added to aprs.....hihi

John Moyers  
ARS; N4QEA  
Packet; N4QEA @ N4QEA.#METN.TN.USA.NA  
Inet; moyers@ibm.net  
Cruise Missile; 36,02.89N/83,43.35W

From marganta@umd5.umd.edu Thu Dec 21 21:25:47 1995  
Received: from holmes.umd.edu (holmes.umd.edu [129.2.128.24]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id VAA15413 for <aprssig@tapir.org>; Thu, 21 Dec 1995 21:25:41 -0600 (CST)  
Received: from marple.umd.edu (marple.umd.edu [128.8.10.50]) by holmes.umd.edu(8.6.12/95Sep13) with ESMTP id WAA23936; Thu, 21 Dec 1995 22:25:35 -0500  
Received: by marple.umd.edu id WAA01640; Thu, 21 Dec 1995 22:25:34 -0500  
Date: Thu, 21 Dec 1995 22:25:34 -0500 (EST)  
From: "Antanaitis - Margaret B." <marganta@umd5.umd.edu>  
X-Sender: marganta@marple.umd.edu  
To: aprssig@tapir.org  
Subject: Change in 2MEG CD?  
Message-ID: <Pine.OSF.3.91.951221221606.751A-100000@marple.umd.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

- A word of caution to anyone considering buying a 1:2,000,000 USGS CD.
- Several days ago I received my 1:2,000,000-Scale Optional format USGS DLG CD. It is marked as being Mastered 7/95. It is \*NOT\* compatible with MAKEMAP1.BAS. The file structure on the CD is tiered by state rather than region as expected by MAKEMAP1.BAS.
- The DLG data is in files organized by state name (\\DATA\\DLG\\NC\\NC2MILRD.DO for North Carolina road information). 4 to 8 files are provided for each state (NC2MILRD.DO, NC2MILHY.DO, NC2MILBD.DO, NC2MILRR.DO, NC2MILMS.DO, NC2MILMT.DO, NC2MILMS.TXT, and NC2MILMT.TXT).
- The respective DLG (.DO) files are structured similar to 1:100K files I have downloaded over the Internet EXCEPT each line of data is terminated ONLY in a linefeed character AND varies in total length. Neither UNBLOCK.BAS nor its variants would process the DLG files due to the variable line lengths.
- After I wrote a new program to unblock the data, I tried using MKMAPHK2.EXE to generate a 16 mile radius map. It did NOT work, although the map center was within the range of the unblocked DLG file. MKMAPHK2.EXE errored off warning that the DLG files did not cover that point.
- Fortunately I found that I COULD process the unblocked DLG file using CONV100C.BAS to produce files usable by MAPFIX18.BAS. A lot of work and

not fun but at least I can extract data.

- Also, the CD does not have the USGS XTRACT.EXE program, rather the utility ARCVIEW is provided for viewing the map data. It requires a minimum of 8 Meg of RAM to run (and it won't work with my 4 Megs).

- Unless I really screwed up [ and it wouldn't be the first time ;- ) ] it would appear that MAKEMAP will have to be modified to accomodate a different directory structure and possibly a new data format (I am not that familiar with FIELDED data nor QuickBasic to figure out from the existing code what data format is expected). Any help would be appreciated.

Ted Antanaitis WA7ZZB  
email: marganta@umd5.umd.edu

From amirault@laraby.tiac.net Thu Dec 21 22:03:58 1995  
Received: from laraby.tiac.net (root@laraby.tiac.net [199.0.65.80]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id WAA16877 for <aprssig@tapir.org>; Thu, 21 Dec 1995 22:03:55 -0600 (CST)  
Received: (from amirault@localhost) by laraby.tiac.net (8.6.9/8.6.6.Beta9) id XAA01369; Thu, 21 Dec 1995 23:03:54 -0500  
Date: Thu, 21 Dec 1995 23:03:53 -0500 (EST)  
From: Richard Amirault <amirault@laraby.tiac.net>  
To: aprssig@tapir.org  
Subject: Re: [APRSSIG:5454] APRS not working on com 3  
In-Reply-To: <m0tSooq-000Tr0C@spider.lloyd.com>  
Message-ID: <Pine.BSF.3.91.951221230221.904B-100000@laraby.tiac.net>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 21 Dec 1995, Norman Davis wrote:

> I installed a new VLB enhanced IO board in the machine and I can get  
> everything to work on com 3 but aprs. Anyone have any Ideas.  
> Norm WB6SHI  
> Norman Davis WB6SHI  
>

Sure! Move APRS to Comm 1 or Comm 2 and move one of the other things to Comm 3! (APRS was \*not\* designed to work with anything other than Comm 1 or 2 --- see the docs)

Richard Amirault                      N1JDU                      Boston, Massachusetts USA  
amirault@tiac.net                      "Go Fly A Kite"

From WB4LTF@aol.com Thu Dec 21 22:20:37 1995  
Received: from emout06.mail.aol.com (emout06.mail.aol.com [198.81.10.43]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id WAA17355 for <aprssig@tapir.org>; Thu, 21 Dec 1995 22:20:34 -0600 (CST)  
From: WB4LTF@aol.com  
Received: by emout06.mail.aol.com (8.6.12/8.6.12) id XAA26287 for aprssig@tapir.org; Thu, 21 Dec 1995 23:20:02 -0500

Date: Thu, 21 Dec 1995 23:20:02 -0500  
Message-ID: <951221232001\_96794659@emout06.mail.aol.com>  
To: aprssig@tapr.org  
Subject: Re: [APRSSIG:5310] AEA PK232

Try going to the O C T section. Then shut off the AEA and turn it back on if you see the AEA opening screen then you can go back to APRS (hit escape) and re-initialize from APRS. (Alt-S & T). This always works for me...

Go to the README Subdirectory and read AEA.TXT  
Also check the System Subdirectory for the INITAEA.TNC and RESTYORE.TNC

Bud  
wb41tf@aol.com

From amirault@laraby.tiac.net Thu Dec 21 22:39:45 1995  
Received: from laraby.tiac.net (root@laraby.tiac.net [199.0.65.80]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id WAA17918 for <aprssig@tapr.org>; Thu, 21 Dec 1995 22:39:42 -0600 (CST)  
Received: (from amirault@localhost) by laraby.tiac.net (8.6.9/8.6.6.Beta9) id XAA02028; Thu, 21 Dec 1995 23:39:40 -0500  
Date: Thu, 21 Dec 1995 23:39:40 -0500 (EST)  
From: Richard Amirault <amirault@laraby.tiac.net>  
To: aprssig@tapr.org  
Subject: Re: [APRSSIG:5475] APRTRAK and 73 article!  
In-Reply-To: <Pine.SUN.3.91.951221202208.19812A-1000000@greatlakes>  
Message-ID: <Pine.BSF.3.91.951221233844.1955B-1000000@laraby.tiac.net>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 21 Dec 1995, Bob Bruninga wrote:

>  
> I just got word that 73 mag is doing a special SATELLITE issue for MARCH.  
>  
> DEADLINE is 22 DEC. Tomorrow!  
>  
> I need to get a copy of APRTRAK.txt to 73 mag ASAP.. CANT FIND AN ADDRESS  
> anywhere or EMAIL.  
>  
> Wife is picking me up in 5 minutes for 2 week trip!  
>  
> If anyone wants to copy APRTRAK.txt, its in the APRTRAK\README directory...  
> and send it in as an article, I would appreciate it. First person to  
> successfully do so, please tell everyone else so they dont get too many  
> copies! THANKS... SORRY TO USE THE SIG, but im outta time....

DONE! Sent 11:39 pm EST 12/21/95 to hq@arrl.org

Richard Amirault                      N1JDU                      Boston, Massachusetts USA  
amirault@tiac.net                      "Go Fly A Kite"

From amirault@laraby.tiac.net Thu Dec 21 22:47:37 1995

Received: from laraby.tiac.net (root@laraby.tiac.net [199.0.65.80]) by  
sys1.tapir.org (8.7.2/8.7.2) with SMTP id WAA18088 for <aprssig@tapir.org>; Thu, 21  
Dec 1995 22:47:34 -0600 (CST)  
Received: (from amirault@localhost) by laraby.tiac.net (8.6.9/8.6.6.Beta9) id  
XAA02142; Thu, 21 Dec 1995 23:47:34 -0500  
Date: Thu, 21 Dec 1995 23:47:33 -0500 (EST)  
From: Richard Amirault <amirault@laraby.tiac.net>  
To: APRS sig group <aprssig@tapir.org>  
Subject: Garmin source/price?  
Message-ID: <Pine.BSF.3.91.951221234531.1955C-100000@laraby.tiac.net>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I thought I'd saved some msgs regarding what retail outfit has the best  
price on the Garmin 45, but I guess not.

I'm ready to get my hot little hands on one! Can someone point me in the  
right direction? Thanks

Richard Amirault                      N1JDU                      Boston, Massachusetts USA  
amirault@tiac.net                      "Go Fly A Kite"

From rwf@mindspring.com Thu Dec 21 23:12:38 1995  
Received: from borg.mindspring.com (root@borg.mindspring.com [204.180.128.14]) by  
sys1.tapir.org (8.7.2/8.7.2) with SMTP id XAA19051 for <aprssig@tapir.org>; Thu, 21  
Dec 1995 23:12:35 -0600 (CST)  
Received: from rwf.mindspring.com [168.121.44.154] by borg.mindspring.com  
with SMTP id AAA15907 for <aprssig@tapir.org>; Fri, 22 Dec 1995 00:12:26 -0500  
Date: Fri, 22 Dec 1995 00:12:26 -0500  
Message-Id: <199512220512.AAA15907@borg.mindspring.com>  
X-Sender: rwf@mindspring.com  
X-Mailer: Windows Eudora Version 2.1.1  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: aprssig@tapir.org  
From: rwf <rwf@mindspring.com>  
Subject: Re: [APRSSIG:5482] Re: APRTRAK and 73 article!

At 10:43 PM 12/21/95 -0600, Richard Amirault wrote:

>DONE! Sent 11:39 pm EST 12/21/95 to hq@arrl.org

Whoops....

ARRL publishes "QST". They probably will not forward it to Wayne Green, the  
publisher of "73" Magazine (their comperition)

From pes@gv.net Fri Dec 22 01:10:38 1995  
Received: from main.gv.net (root@main.gv.net [205.162.164.2]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id BAA27811 for <aprssig@tapir.org>; Fri, 22 Dec 1995 01:10:34 -0600 (CST)  
Received: from main.gv.net (ppp18.gv.net [205.162.164.67]) by main.gv.net (8.6.9/8.6.9) with SMTP id AAA09985 for <aprssig@tapir.org>; Fri, 22 Dec 1995 00:01:50 -0800  
Message-Id: <199512220801.AAA09985@main.gv.net>  
X-Sender: pes@main.gv.net  
X-Mailer: Windows Eudora Version 1.4.4  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 21 Dec 1995 23:08:17 -0800  
To: aprssig@tapir.org  
From: pes@gv.net (Peter Short)  
Subject: Re: [APRSSIG:5480] Re: APRS not working on com 3

>On Thu, 21 Dec 1995, Norman Davis wrote:

>  
>> I installed a new VLB enhanced IO board in the machine and I can get  
>> everything to work on com 3 but aprs. Anyone have any Ideas.  
>> Norm WB6SHI  
>> Norman Davis WB6SHI  
>>  
>  
>Sure! Move APRS to Comm 1 or Comm 2 and move one of the other things to  
>Comm 3! (APRS was \*not\* designed to work with anything other than Comm  
>1 or 2 --- see the docs)  
>  
>Richard Amirault N1JDU Boston, Massachusetts USA  
>amirault@tiac.net "Go Fly A Kite"  
>  
>If APRS isnt supposed to work on com 3 or com 4 then why does my pp88 work  
on com 4?  
try com 4.You might have an IRQ conflict with com 1.That usually holds your  
mouse.  
Its all in yor addresses in You computer.  
Peter.KD6DKD  
>

From jerdptro@xnet.com Fri Dec 22 05:57:41 1995  
Received: from flood.xnet.com (flood.xnet.com [198.147.221.35]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id FAA04855 for <aprssig@tapir.org>; Fri, 22 Dec 1995 05:57:39 -0600 (CST)  
Received: from n9vhw.xnet.com by flood.xnet.com (8.7/XNet-1.4R) with SMTP id FAA29179 for <aprssig@tapir.org>; Fri, 22 Dec 1995 05:50:46 -0600 (CST)  
Message-Id: <199512221150.FAA29179@flood.xnet.com>  
Comments: Authenticated sender is <jerdptro@quake.xnet.com>  
From: "Jerry" <jerdptro@xnet.com>  
To: aprssig@tapir.org  
Date: Fri, 22 Dec 1995 05:57:33 +0000  
Subject: Re: [APRSSIG:5475] APRTRAK and 73 article!  
Reply-to: jerdptro@xnet.com

Priority: normal  
X-mailer: Pegasus Mail for Windows (v2.20)

FLASH!!!!!!

I think I get the cupie doll. I was able to find Wayne Green's E-Mail address on the net, so I forwarded the APR Trak info to him with an explanation that Bob is on vacation. If he has questions, I may post them on SIG for help from others.  
Happy Holidays, and watch for 73's March 1996 issue.

Jerry

-----

Date: Thu, 21 Dec 1995 19:38:06 -0600 (CST)  
Reply-to: aprssig@tapr.org  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
To: aprssig@tapr.org  
Subject: [APRSSIG:5475] APRTRAK and 73 article!

I just got word that 73 mag is doing a special SATELLITE issue for MARCH.

Jerry Di Pietro  
N9VHW  
Streamwood, IL  
jerdptro@xnet.com

From n4uls@ix.netcom.com Fri Dec 22 09:09:31 1995  
Received: from ix2.ix.netcom.com ([199.182.120.1]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id JAA10520 for <aprssig@tapr.org>; Fri, 22 Dec 1995 09:09:28 -0600 (CST)  
Received: from ix2.ix.netcom.com (8.6.12/SMI-4.1/Netcom) id HAA14826; Fri, 22 Dec 1995 07:08:57 -0800  
Date: Fri, 22 Dec 1995 07:08:57 -0800  
Message-Id: <199512221508.HAA14826@ix2.ix.netcom.com>  
From: n4uls@ix.netcom.com (Jack Anderson )  
Subject: Re: [APRSSIG:5451] APRS over voice repeaters  
To: aprssig@tapr.org

You wrote:

>

>I don't know if anyone has done much listening to the public service  
>bands, but it seems that the method used by the PS people for automatic  
>station ID would work for APRS via a voice repeater. This being, each  
>time the officer keys his mic, the ID is sent before he starts talking (do  
>they use digital delay to hold back the voice during ID or does the  
>officer have to wait before speaking). The twist comes in that it seems  
>the ID is sent without PL while voice has PL. I can listen to the Howard  
>County police with CTCSS turned on and hear all the chatter but not the  
>annoying braps of the auto IDs. Maybe I'm just hearing the pickup delay  
>of my PL decoder, but it does seem like a way send data with out annoying

>the users. Of course the same principle could be applied to a trailing  
>data burst.

There is some discussion of doing this with APRS in the README files.

With the system you are referring to, the officer usually has to wait before speaking to avoid cutting off the first word in the PTT-ID data burst. Sometimes there is an audio or visual indication of when it's OK to talk. But, more and more users are finding that putting the data burst at the end of the transmission instead of the beginning accomplishes the same thing with out the need for a manual delay.

This would be a pretty easy interface to build up, just a black box that goes between the radio and mic, with connections for TNC audio, and some way to get the TNC to send a posit when the mic is unkeyed. The use of CTCSS here would keep users from hearing the packets.

Jack

From alanwc7r@primenet.com Fri Dec 22 10:43:27 1995  
Received: from mailhost1.primenet.com (mailhost1.primenet.com [198.68.32.51]) by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id KAA13683 for <aprssig@tapr.org>; Fri, 22 Dec 1995 10:43:23 -0600 (CST)  
Received: from usr1.primenet.com (root@usr1.primenet.com [198.68.32.11]) by mailhost1.primenet.com (8.7.1/8.7.1) with ESMTP id JAA10991 for <aprssig@tapr.org>; Fri, 22 Dec 1995 09:43:20 -0700 (MST)  
Received: from Primenet.primenet.com (ip195.prc.primenet.com [204.212.56.195]) by usr1.primenet.com (8.7.1/8.7.1) with SMTP id JAA11220 for <aprssig@tapr.org>; Fri, 22 Dec 1995 09:43:19 -0700 (MST)  
Message-Id: <199512221643.JAA11220@usr1.primenet.com>  
X-Sender: alanwc7r@primenet.com  
X-Mailer: Windows Eudora Light Version 1.5.2  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Fri, 22 Dec 1995 09:43:06 -0700  
To: aprssig@tapr.org  
From: "Alan K. Unangst" <alanwc7r@primenet.com>  
Subject: Re: [APRSSIG:5475] APRTRAK and 73 article!

DONE, as we speak...Have a great holiday, and don't forget the sun  
block....73..Alan, WC7R..//\\

At 07:38 PM 12/21/95 -0600, you wrote:

>  
>I just got word that 73 mag is doing a special SATELLITE issue for MARCH.  
>  
>DEADLINE is 22 DEC. Tomorrow!  
>  
>I need to get a copy or APRTRAK.txt to 73 mag ASAP.. CANT FIND AN ADDRESS  
>anywhere or EMAIL.  
>

>Wife is picking me up in 5 minutes for 2 week trip!  
>  
>If anyone wants to copy APRTRAK.txt, its in the APRTRAK\README directory...  
>and send it in as an article, I would appreciate it. First persone to  
>successfully do so, please tell everyone else so they dont get too many  
>copies! THANKS... SORRY TO USE THE SIG, but im outta time....

>  
>WB4APR REPLY COMMENT:

>  
>  
>  
>  
>  
Alan K. Unangst

From ko4qc@ix.netcom.com Fri Dec 22 13:17:43 1995  
Received: from ix3.ix.netcom.com (ix3.ix.netcom.com [199.182.120.3]) by  
sys1.tapr.org (8.7.2/8.7.2) with SMTP id NAA18332 for <aprssig@tapr.org>; Fri, 22  
Dec 1995 13:17:37 -0600 (CST)  
Received: from by ix3.ix.netcom.com (8.6.12/SMI-4.1/Netcom)  
id JAA08680; Fri, 22 Dec 1995 09:50:33 -0800  
Date: Fri, 22 Dec 1995 09:50:33 -0800  
Message-Id: <199512221750.JAA08680@ix3.ix.netcom.com>  
From: ko4qc@ix.netcom.com (Joel Gamble )  
Subject: Re: [APRSSIG:5319] Re: License Class/Gate  
To: aprssig@tapr.org

You wrote:

>  
>If you can talk on 30 meters, you can do it the other way, too.  
>Ralph  
>  
No-one is allowed to "talk" on 30 mtr.  
Joel

From tsxbbs.smtp.mail.tosser@nashville.com Fri Dec 22 13:57:11 1995  
Received: from nashville.com (ns1.nashville.com [199.78.224.2]) by sys1.tapr.org  
(8.7.2/8.7.2) with SMTP id NAA19579 for <aprssig@tapr.org>; Fri, 22 Dec 1995  
13:57:07 -0600 (CST)  
Message-Id: <199512221957.NAA19579@sys1.tapr.org>  
From: tsxbbs.smtp.mail.tosser@nashville.com  
Reply-To: tsxbbs.smtp.mail.tosser@nashville.com  
Subject: Unrecognized recipient in message  
To: aprssig@tapr.org  
X-Mailer: TSX-BBS  
Date: Fri, 22 Dec 95 11:45:42  
Organization: The Nashville Exchange BBS 615-383-0727

You recently sent a message to mark.endicott@nashville.com which could not be  
delivered. There is no person with this name at The Nashville Exchange BBS  
615-383-0727. Typically, this is the result of a slight misspelling or the  
omission of a period between the first and last names. Your message was  
delivered to the mail clerk, Ben Cunningham, since your intended recipient was



not recognized.

From amirault@laraby.tiac.net Fri Dec 22 13:57:20 1995  
Received: from laraby.tiac.net (root@laraby.tiac.net [199.0.65.80]) by  
sys1.tapir.org (8.7.2/8.7.2) with SMTP id NAA19597 for <aprssig@tapir.org>; Fri, 22  
Dec 1995 13:57:16 -0600 (CST)  
Received: (from amirault@localhost) by laraby.tiac.net (8.6.9/8.6.6.Beta9) id  
OAA14903; Fri, 22 Dec 1995 14:57:12 -0500  
Date: Fri, 22 Dec 1995 14:57:12 -0500 (EST)  
From: Richard Amirault <amirault@laraby.tiac.net>  
To: aprssig@tapir.org  
Subject: Re: [APRSSIG:5484] Re: APRTRAK and 73 article!  
In-Reply-To: <199512220512.AAA15907@borg.mindspring.com>  
Message-ID: <Pine.BSF.3.91.951222145613.14871C-100000@laraby.tiac.net>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

>  
> >DONE! Sent 11:39 pm EST 12/21/95 to hq@arrl.org  
>  
> Whoops....  
>  
> ARRL publishes "QST". They probably will not forward it to Wayne Green, the  
> publisher of "73" Magazine (their comperition)  
>

Double WHOOPS! Guess it was too close to bedtime;-) Well hope some one  
else got thru.

Richard Amirault                      N1JDU                      Boston, Massachusetts USA  
amirault@tiac.net                      "Go Fly A Kite"

From kheyboer@pinegov.co.pinellas.fl.us Fri Dec 22 15:58:03 1995  
Received: from pinegov (pinegov.co.pinellas.fl.us [136.174.202.1]) by  
sys1.tapir.org (8.7.2/8.7.2) with SMTP id PAA23791 for <aprssig@tapir.org>; Fri, 22  
Dec 1995 15:57:58 -0600 (CST)  
Received: by pinegov (5.0/SMI-SVR4)  
id AA17732; Fri, 22 Dec 1995 21:53:26 +0000  
Errors-To: root@pinegov.co.pinellas.fl.us  
Date: Fri, 22 Dec 1995 21:53:25 +0000 (EST)  
From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>  
To: aprssig@tapir.org  
Subject: Re: [APRSSIG:5489] Re: License Class/Gate  
In-Reply-To: <199512221750.JAA08680@ix3.ix.netcom.com>  
Message-Id: <Pine.SUN.3.91.95122215212.17723B-100000@pinegov>  
Mime-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 22 Dec 1995, Joel Gamble wrote:

> You wrote:

> >  
> >If you can talk on 30 meters, you can do it the other way, too.  
> >Ralph

> >  
> No-one is allowed to "talk" on 30 mtr.  
> Joel  
>  
>  
>

Joel is, of course, correct, in the sense that you cannot use voice on the 30 M ham band, and you must stay below 200 watts too..but you can be digital! 73 and Happy Holidays!

de KD4UYR (digitally speaking, of course)

From BenWS5R@aol.com Fri Dec 22 16:42:14 1995  
Received: from mail06.mail.aol.com (mail06.mail.aol.com [152.163.172.108]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id QAA25443 for <aprssig@tapir.org>; Fri, 22 Dec 1995 16:42:09 -0600 (CST)  
From: BenWS5R@aol.com  
Received: by mail06.mail.aol.com (8.6.12/8.6.12) id RAA01750 for aprssig@tapir.org; Fri, 22 Dec 1995 17:41:36 -0500  
Date: Fri, 22 Dec 1995 17:41:36 -0500  
Message-ID: <951222174135\_97372835@mail06.mail.aol.com>  
To: aprssig@tapir.org  
Subject: Re: [APRSSIG:5456] Re: GPS and missiles

I think both Bill and Gerry have alot to offer to the sig and would hate to see either leave. Bill, I find your hints and techniques on map making helpful. Gerry, your expertise on the subject of GPS' interesting and helpful. So why can't we put this raging forest fire OUT and do as someone in the LA area said "Why can't we all just get along?"

Thats all, Ben WS5R DM95cf

From rwf@mindspring.com Fri Dec 22 17:15:43 1995  
Received: from borg.mindspring.com (root@borg.mindspring.com [204.180.128.14]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id RAA26662 for <aprssig@tapir.org>; Fri, 22 Dec 1995 17:15:41 -0600 (CST)  
Received: from rwf.mindspring.com [168.121.44.154] by borg.mindspring.com with SMTP id SAA02824 for <aprssig@tapir.org>; Fri, 22 Dec 1995 18:15:34 -0500  
Date: Fri, 22 Dec 1995 18:15:34 -0500  
Message-Id: <199512222315.SAA02824@borg.mindspring.com>  
X-Sender: rwf@mindspring.com  
X-Mailer: Windows Eudora Version 2.1.1  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: aprssig@tapir.org  
From: rwf <rwf@mindspring.com>  
Subject: Re: [APRSSIG:5489] Re: License Class/Gate

Hmmm my TNC does it all the time. brappp brappp brappppp

At 01:22 PM 12/22/95 -0600, you wrote:

>You wrote:

>>

>>If you can talk on 30 meters, you can do it the other way, too.

>>Ralph

>>

> No-one is allowed to "talk" on 30 mtr.

> Joel

>

>

>

From barrettd@crpl.cedar-rapids.lib.ia.us Fri Dec 22 22:59:41 1995

Received: from CRPL.CEDAR-RAPIDS.LIB.IA.US (crpl.cedar-rapids.lib.ia.us [198.134.138.1]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id WAA07330 for <aprssig@tapr.org>; Fri, 22 Dec 1995 22:59:38 -0600 (CST)

Message-Id: <199512230459.WAA07330@sys1.tapr.org>

Received: from ppp-107.cedar-rapids.lib.ia.us by CRPL.CEDAR-RAPIDS.LIB.IA.US with SMTP;

Fri, 22 Dec 1995 22:59:13 -0600 (CST)

X-Sender: barrettd@crpl.cedar-rapids.lib.ia.us

X-Mailer: Windows Eudora Light Version 1.5.2

Mime-Version: 1.0

Content-Type: multipart/mixed; boundary="=====\_819716428==\_"

Date: Fri, 22 Dec 1995 23:00:28 -0600

To: aprssig@tapr.org

From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>

Subject: Ultimeter 2000

X-Attachments: C:\PAKET\PEET.TXT;

--=====\_819716428==\_

Content-Type: text/plain; charset="us-ascii"

--=====\_819716428==\_

Content-Type: text/plain; charset="us-ascii"

Content-Disposition: attachment; filename="PEET.TXT"

Just an FYI with and imbedded question.

I've included in this message the name and actual output of the four serial port output modes for the Ultimeter 2000. I thought someone might like it for some reason or another.

Now for the imbedded question; any clue on how to decode any of them? I'd like to do some visual basic stuff for the U2000 and I've used every search engine on the internet to find any info on the format, I only got a grand total of 10 hits out of 23 different search engines :-)

I guessed hex to dec conversions but can't seem to get a correlation; I do believe that everything to the left of ----- is real time data and that every thing to the right is date and time.

Datalog Mode

From jaykq4ms@nando.net Fri Dec 22 23:05:52 1995  
Received: from merlin.nando.net (root@merlin.nando.net [152.52.2.2]) by  
sys1.tapir.org (8.7.2/8.7.2) with SMTP id XAA07750 for <aprssig@tapir.org>; Fri, 22  
Dec 1995 23:05:50 -0600 (CST)  
From: jaykq4ms@nando.net  
Received: from jaykq4ms.nando.net (grail1502.nando.net) by merlin.nando.net (4.1/  
dave1-nando/dec93)  
id AA10537; Sat, 23 Dec 95 00:05:24 EST  
Date: Thu, 21 Dec 95 10:30:43 EST  
Subject: RE: [APRSSIG:5437] GPS ALTITUDE AND ETC  
To: aprssig@tapir.org

X-Mailer: Chameleon - TCP/IP for Windows by NetManage, Inc.  
Message-Id: <Chameleon.4.01.2.951221103758.jaykq4ms@>  
Mime-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Mike, Jay in Raleigh, NC. I agree with you that the subject has gotten a little out of hand. But I do enjoy learning more about The "how " of things. But thats not the reaso for replying. I had a good chuckle over your story about you date. "Been there, Done that!". I think option #1 is the best of both worlds. A good friend (WB4IUy) is married to a very nice lady (AC4QD). They both are extras, and share the joys of this hobby (among other things!). Now MY wife is like your date. I get excited about the new radios, or new developments with APRS, of even a new square on 6m and all I get is a big YAWN!! Oh well, like I've been told ('scuse my French) "Lifes a bitch, then you marry one, then you die)

Jay

KQ4MS

<A non-registered user of APRS>.....give me time!

-----  
E-mail: jaykq4ms  
Date: 09/24/95  
Time: 02:25:03

This message was sent by Chameleon  
-----

From fredq@bihs.net Sat Dec 23 00:05:54 1995  
Received: from brazos.bihs.net (brazos.bihs.net [204.96.15.2]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id AAA12945 for <aprssig@tapir.org>; Sat, 23 Dec 1995 00:05:51 -0600 (CST)  
Received: from bihs.net (port2.xyplex-2.bihs.net [204.96.15.49]) by brazos.bihs.net (8.7.1/8.7.1) with SMTP id AAA07859 for <aprssig@tapir.org>; Sat, 23 Dec 1995 00:05:09 -0600 (CST)  
Date: Sat, 23 Dec 1995 00:05:09 -0600 (CST)  
Message-Id: <199512230605.AAA07859@brazos.bihs.net>  
X-Sender: fredq@mail.bihs.net  
X-Mailer: Windows Eudora Light Version 1.5.2  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: aprssig@tapir.org  
From: Fred Quarles <fredq@bihs.net>  
Subject: Re: [APRSSIG:5493] Re: GPS and missiles

So why can't we put this raging forest fire OUT and do as someone in >the LA area said "Why can't we all just get along?"

>

>

>Thats all, Ben WS5R DM95cf

>

>

>

Well put Ben, I know Gerry personally and he does have a lot to offer, but asking him to give a partial answer is worse than telling him to take a hike. Bill does have alot to offer and is very much an expert in map making. I would hate to see either one of them get pushed out of this sig...

Merry Christmas to all

Fred, KC5HHN

From HENRYVB@aol.com Sat Dec 23 02:38:11 1995  
Received: from mail02.mail.aol.com (mail02.mail.aol.com [152.163.172.66]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id CAA18827 for <aprssig@tapir.org>; Sat, 23 Dec 1995 02:38:09 -0600 (CST)  
From: HENRYVB@aol.com  
Received: by mail02.mail.aol.com (8.6.12/8.6.12) id DAA17499 for aprssig@tapir.org; Sat, 23 Dec 1995 03:37:37 -0500  
Date: Sat, 23 Dec 1995 03:37:37 -0500  
Message-ID: <951223033733\_97697716@mail02.mail.aol.com>  
To: aprssig@tapir.org  
Subject: QUOTING TOO MUCH JUNK ON THIS SIG

In a APRSSIG message dated 95-12-20 18:02:52 EST, ke4eer@ro.com wrote:

>OK GERRY I REMEMBER A WHILE BACK YOU WHERE COMPLAINING ABT  
>ITEMS POSTED THAT WHERE OFF TOPIC FOR THE SIG. WHAT DO YOU  
>CALL THIS VERY LENGHTY STORY ABOUT GARBAGE NOTHING TO DO  
>WITH APRS.

etc etc etc (as the complete original message was repeated.)

People, why is it that the whole message has to be copied over and over and over again? I have seen messages with the WX stuff and GPS with ">>>" on each line, some messages going over 100 lines! Since most mailers Re: the original message, why quote over and over? If you need to see the original message just look it up on your system. Let's cut out this crap and just quote the IMPORTANT part of a message, or nothing at all.

Personal to Bill: "If need be to get rid of having to read all this junk i will unsubscribe from the sig." If you feel inclined to unsubscribe, you are not hurting me by doing that, only yourself. Quite an idle threat.

And to all: Have yourself a Merry Merry Christmas, or whatever else should be Merry at this time of the year.

henryvb@aol.com  
N9WMM

From n2iph@mci.newscorp.com Sat Dec 23 03:47:11 1995  
Received: from camus-s1.delphi.com (root@camus-s1.delphi.com [206.15.105.43]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id DAA20384 for <aprssig@tapir.org>; Sat, 23 Dec 1995 03:47:09 -0600 (CST)  
Received: from N2IPH2 (slip109-108.bb.delphi.com [206.15.109.108]) by camus-

s1.delphi.com (8.7.1/) with SMTP id EAA30219 for <aprssig@tapr.org>; Sat, 23 Dec 1995 04:43:07 -0500 (EST)  
Date: Sat, 23 Dec 1995 04:43:07 -0500 (EST)  
Message-Id: <199512230943.EAA30219@camus-s1.delphi.com>  
X-Sender: n2iph@pop.mci.newscorp.com  
X-Mailer: Windows Mail Version 2.1.2  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: aprssig@tapr.org  
From: BOB DERDERIAN <n2iph@mci.newscorp.com>  
Subject: Bandwidth and excessive quoting in reply messages

All I can say is HERE, HERE to N9WMM's NOTAL concerning quoting messages in replies.

We(HAMS) of all people should be wiser than to do this, realizing that the group has probably;  
1.) Read the original message and will know the subject matter. -or-  
2.) Have deleted the message without reading 'cause they are not interested in the subject.

You wouldn't use this method if you were replying via packet would you? I think not. You would be FLAMED to within an inch of your life!!

All that a reply msg needs to continue the thread on the subject is to have a subject title that will echo the original msg or let the reader know that this is a reply to the original message, after that you are just wasting bandwidth or too lazy to care. Sure the Internet is huge and the bandwidth dwarfs 1200 and 300 baud packet channels but at the rate it is growing it won't be long before non-thinking button-clickers choke it to a snails crawl!

Remember when packet was faster and actually useable, now its filled with so much garbage(kind of the direction this SIG is heading) that it is a waste. I am not referring to the missiles and bombs discussion either. That topic has some merit and some of the contributors are very knowledgeable. If the topic seems off the beaten path to you then DON'T READ IT! That's not too tough is it? Just hold down the CTRL-key and click on all the mail that you DON'T want to read, then hit the delete key and it's outta here!

Happy Holidays to all.

Bob, n2iph

From jkerns@usit.net Sat Dec 23 07:24:32 1995  
Received: from use.usit.net (use.usit.net [199.1.48.3]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id HAA26028 for <aprssig@tapr.org>; Sat, 23 Dec 1995 07:24:29 -0600 (CST)  
Received: from bway-slip81.dynamic.usit.net (bway-slip81.dynamic.usit.net [204.194.172.127]) by use.usit.net (8.6.10/8.6.9) with SMTP id IAA05602 for <aprssig@tapr.org>; Sat, 23 Dec 1995 08:26:41 -0500  
Message-Id: <199512231326.IAA05602@use.usit.net>  
X-Sender: jkerns@usit.net (Unverified)  
X-Mailer: Windows Eudora Version 1.4.4

Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Fri, 22 Dec 1995 20:20:36 -0500  
To: aprssig@tapr.org  
From: jkerns@usit.net (jim kerns)  
Subject: Re: [APRSSIG:5499] Bandwidth and excessive quoting in reply messages

>All I can say is HERE, HERE to N9WMM's NOTAL concerning quoting messages in  
>replies. etc. etc. etc  
>  
>Bob, N2IPH sent the above original msg.

I have tried to keep out of this discussion, but  
PLEASE lets not let this sig group get like the packet BBs's.  
Mine has page after of receipes, civil war info, navy ships news, missing  
persons, and lord knows what else.  
I only ready a smal fraction of the msg. but it takes 30 minutes sometimes  
for the packet to list them all. At one time when it was mostly Ham related  
it would take 5 or 6 minutes to screen print the msg.  
Merry Christmas and a Happy 1996 to all.

Jim N4PUQ, in Tn. (who just cluttered up the SIG a little more!)>  
>  
>

From n4uls@ix.netcom.com Sat Dec 23 08:50:29 1995  
Received: from ix10.ix.netcom.com (ix10.ix.netcom.com [199.182.120.10]) by  
sys1.tapr.org (8.7.2/8.7.2) with SMTP id IAA28441 for <aprssig@tapr.org>; Sat, 23  
Dec 1995 08:50:26 -0600 (CST)  
Received: from by ix10.ix.netcom.com (8.6.12/SMI-4.1/Netcom)  
id GAA03308; Sat, 23 Dec 1995 06:49:30 -0800  
Date: Sat, 23 Dec 1995 06:49:30 -0800  
Message-Id: <199512231449.GAA03308@ix10.ix.netcom.com>  
From: n4uls@ix.netcom.com (Jack Anderson )  
Subject: Inexpensive way to get APRSSIG  
To: aprssig@tapr.org

During the current debate over what's "on topic"  
for APRSSIG and what's not, I noticed several  
comments from folks who get upset by the "off  
topic" messages because of the cost involved to  
download them.

If anyone is interested, I run a landline BBS  
where I have carried the APRSSIG mailing list as a  
"conference" on the system since its inception. I  
offer full, free access to the system on the first  
call with no mandatory subscription fees. The BBS  
is located in Vienna, VA, and is a local call from  
most of the Metro DC area, however, I do get calls  
from all over the country. Even if you are not a  
local call to the BBS, you might find this to be a  
more economical solution than your current method



of following the sig. If so, you are invited to call 703/207-9622 and give it a try. A "QWK" mail door is available, which allows you to download new messages in compressed format and read them offline.

Personally, I think some of the technical discussions about GPS operation, errors and error correction are quite informative and I don't mind seeing them from time to time. Perhaps we need two mailing lists - one for APRS discussion only, and one for APRS-GPS and other general topics not especially related to APRS itself. Then, when a thread starts to "stray", we can POLITELY ask the participants to move the thread to the other list. That way, those interested can still participate and follow the discussion, and those not can stay focused on the "APRS only" sig.

73,

Jack

From jwasmuth@indy.net Sat Dec 23 08:55:36 1995  
Received: from IndyNet.indy.net (root@indynet.indy.net [199.3.65.1]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id IAA28659 for <aprssig@tapir.org>; Sat, 23 Dec 1995 08:55:34 -0600 (CST)  
Received: from jwasmuth.indy.net (ip180.slip.indy.net [199.3.65.180]) by IndyNet.indy.net with SMTP id JAA17860 (8.6.12/IDA-1.6 for <aprssig@tapir.org>); Sat, 23 Dec 1995 09:54:20 -0500  
Date: Sat, 23 Dec 1995 09:54:20 -0500  
Message-ID: <199512231454.JAA17860@IndyNet.indy.net>  
X-Sender: jwasmuth@indy.net  
X-Mailer: Windows Eudora Version 1.4.4  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: aprssig@tapir.org  
From: jwasmuth@indy.net (John Wasmuth)  
Subject: Re: [APRSSIG:5495] Ultimeter 2000

>  
> I've included in this message the name and actual output of the four  
> serial port output modes for the Ultimeter 2000. I thought someone might like  
> it for some reason or another.  
> Now for the imbedded question; any clue on how to decode any of them?

Here is the layout for the data logging mode from the Peet Bros. software documentation:

!! indicates start of record  
Current Wind Speed (4 hex digits) in 0.1 KMPH.  
Current Wind Direction (4 hex digits) 0 - 255 ; 0 = North, 40 = East,  
Outdoor Temperature (4 hex digits) in 0.1 degrees F; 0 = 0.0 deg F,

Long Term Rain (4 hex digits) in 0.01"  
Barometer (4 hex digits) in 0.1 Mbar  
Indoor Temperature (4 hex digits) in 0.1 degrees F; 0 = 0.00 deg F,  
Outdoor Humidity (4 hex digits) in 0.1%,  
Indoor Humidity (4 hex digits) in 0.1%,  
Date (4 hex digits) day of year  
Time (4 hex digits) minute of day  
CR  
LF

Usually, Peet Bros. is very willing to share this information. I'm sure a call to them would get answers to any questions. I am curious as to how they will represent sub-zero temperatures. With the U-II, they had 66 represent 0 to take care of this.

John Wasmuth, AA9KB  
jwasmuth@indy.net

John Wasmuth AA9K(ilo)B(yte)  
Voice phone: 317-845-0562  
Data/Fax : 317-845-1277  
Email : jwasmuth@indy.net

From dvelez@norfolk.infi.net Sat Dec 23 09:26:06 1995  
Received: from moe.infi.net (moe.infi.net [198.22.1.119]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id JAA00375 for <aprssig@tapir.org>; Sat, 23 Dec 1995 09:26:04 -0600 (CST)  
Received: from dvelez.infi.net by moe.infi.net with SMTP (Infinet-S-3.3) id KAA15421; Sat, 23 Dec 1995 10:25:57 -0500  
Date: Sat, 23 Dec 1995 10:25:57 -0500  
Message-Id: <199512231525.KAA15421@moe.infi.net>  
X-Sender: dvelez@norfolk.infi.net  
X-Mailer: Windows Eudora Light Version 1.5.2  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: aprssig@tapir.org  
From: Daniel Velez <dvelez@norfolk.infi.net>  
Subject: Re: [APRSSIG:5499] Bandwidth and excessive quoting in reply messages

What would it take to get a USENET newsgroup created? Would it solve any of the problems discussed? I'd prefer it because:

- a. faster for me
- b. less junk in mailbox
- c. my news reader sorts and looks nicer than my mail reader
- d. fewer mailbox "overflows" means less lost personal mail

Of course it invites more casual observers but if it were moderated we could

keep some of the junk to a minimum.

Just wondering...

```
-----
Dan Velez                                A000000GA!  A000000GA!
dvelez@infi.net                          DIVE!  DIVE!  DIVE!
n4wzr@wd4miz.va.usa.noam                 "Shimmin' out!"
-----
```

From Homingin@aol.com Sat Dec 23 10:30:26 1995  
Received: from mail02.mail.aol.com (mail02.mail.aol.com [152.163.172.66]) by  
sys1.tapr.org (8.7.2/8.7.2) with SMTP id KAA02362 for <aprssig@tapr.org>; Sat, 23  
Dec 1995 10:30:24 -0600 (CST)  
From: Homingin@aol.com  
Received: by mail02.mail.aol.com (8.6.12/8.6.12) id LAA15466 for aprssig@tapr.org;  
Sat, 23 Dec 1995 11:29:52 -0500  
Date: Sat, 23 Dec 1995 11:29:52 -0500  
Message-ID: <951223112949\_78010959@mail02.mail.aol.com>  
To: aprssig@tapr.org  
Subject: E-mail to 73

jerdpTRO@xnet.com (Jerry) wrote:  
>I think I get the cupie doll. I was able to find Wayne Green's  
>E-Mail address on the net, so I forwarded the APR Trak info to him

I hope your address source is current. 73 just had another change of editors  
and e-mail address. If you sent it to ProFusion@aol.com, it probably won't  
get to Wayne or the 73 staff. The new address for the 73 editorial office is  
Design73@aol.com. The new 73 Staff Editors are Richard Lubash and Bill  
Fosher. If your Rolodex says anyone else is Staff Editor or Senior Editor,  
it's time to update (again).

This info is based on a phone conversation today (12/22) with Joyce Sawtelle  
in Peterborough. Hope it helps.

73 de Joe K00V  
73 Contributing Editor  
Homingin@aol.com (my address, not 73's)

P.S. It's probably still not too late for the March issue.

From gwyn@paccomm Sat Dec 23 10:39:33 1995  
Received: from paccomm.com ([163.125.30.1]) by sys1.tapr.org (8.7.2/8.7.2) with  
SMTP id KAA02750 for <aprssig@tapr.org>; Sat, 23 Dec 1995 10:39:26 -0600 (CST)  
Received: by paccomm.com (Smail3.1.29.1 #1)  
id m0tTWy9-000FPVC; Sat, 23 Dec 95 11:38 EST  
Date: Sat, 23 Dec 1995 16:38:49 +0000 (GMT)  
From: Gwyn Reedy <gwyn@paccomm>  
To: aprssig@tapr.org  
Subject: Re: [APRSSIG:5421] Re: GPS and missiles  
In-Reply-To: <199512202247.QAA01588@sh1.ro.com>  
Message-ID: <Pine.LNX.3.91.951223162956.216M-100000@paccomm>  
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 20 Dec 1995, William Nolle wrote:

```
> OK GERRY I REMEMBER A WHILE BACK YOU WHERE COMPLAINING ABT
> ITEMS POSTED THAT WHERE OFF TOPIC FOR THE SIG. WHAT DO YOU
> CALL THIS VERY LENGHTY STORY ABOUT GARBAGE NOTHING TO DO
> WITH APRS. Right now the biggest part of sig messages are either the Peet
> brothers wx station or the accuracy of GPS. Although getting sick of the WX
> station problems they are related. Now the missiles and now atomic bombs have
> nothing to do with APRS. There must be a sig on internet someplace where
> this would all be very welcome. PLEASE TAKE YOUR GARBAGE
> ELSEWHERE. THANK YOU. If need be to get rid of having to read all this
> junk i will unsubscribe from the sig.
>
> Bill KE4EER
> -----
```

Here we go again.

Wx station support - That IS part of APRS, like it or not.

GPS accuracy - Wonderful tutorial information. Cannot understand why anyone interested in APRS would not also be interested in this.

SA and reasons therefore - Same answer as GPS accuracy comment above. It is good to read this technical information so well presented. The rationale for having SA is also useful, since it is something we have to live with in using GPS.

Drifting into the politics of who pays for it, who misuses it (missiles) etc is too far out of line (IMHO). But I'm not going to shout or unsubscribe...

Happy holidays to all.

Gwyn

From ndavis@spider.lloyd.com Sat Dec 23 10:44:46 1995  
Received: from spider.lloyd.com (root@spider.lloyd.com [158.222.1.5]) by  
sys1.tapr.org (8.7.2/8.7.2) with SMTP id KAA02793 for <aprssig@tapr.org>; Sat, 23  
Dec 1995 10:44:43 -0600 (CST)  
Received: from dial-1-14.lloyd.com by spider.lloyd.com with smtp  
(Smail3.1.29.1 #5) id m0tTX3l-000TrpC; Sat, 23 Dec 95 08:44 PST  
Message-Id: <m0tTX3l-000TrpC@spider.lloyd.com>  
X-Sender: ndavis@spider.lloyd.com  
X-Mailer: Windows Eudora Version 1.4.4  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Sat, 23 Dec 1995 08:39:34 +0000  
To: aprssig@tapr.org

From: ndavis@spider.lloyd.com (Norman Davis)  
Subject: Re: [APRSSIG:5485] Re: APRS not working on com 3

>>On Thu, 21 Dec 1995, Norman Davis wrote:

>>

>>> I installed a new VLB enhanced IO board in the machine and I can get  
>>> everything to work on com 3 but aprs. Anyone have any Ideas.

>>> Norm WB6SHI

>>> Norman Davis WB6SHI

>>>

>>

>>Sure! Move APRS to Comm 1 or Comm 2 and move one of the other things to  
>>Comm 3! (APRS was \*not\* designed to work with anything other than Comm  
>>1 or 2 --- see the docs)

>>

>>Richard Amirault N1JDU Boston, Massachusetts USA

>>amirault@tiac.net "Go Fly A Kite"

>>

Pete made a good point. Why does setup ask what port if it not suppose to  
work on 3 or 4.

Norman Davis WB6SHI

Email ndavis@spider.lloyd.com  
72057,1722@compuserve.com  
I love Hot cars,Plans and  
Trains.  
Basicly anything that moves.

From largriff@onramp.net Sat Dec 23 11:15:48 1995  
Received: from mailhost.onramp.net (mailhost.onramp.net [199.1.11.3]) by  
sys1.tapr.org (8.7.2/8.7.2) with SMTP id LAA03701 for <aprssig@tapr.org>; Sat, 23  
Dec 1995 11:15:45 -0600 (CST)  
Received: from lub02.onramp.net (lub02.onramp.net [199.1.172.130]) by  
mailhost.onramp.net (8.6.12/8.6.5) with SMTP id LAA13936 for <aprssig@tapr.org>;  
Sat, 23 Dec 1995 11:15:42 -0600  
Received: by lub02.onramp.net with Microsoft Mail  
id <01BAD127.FDC9CAE0@lub02.onramp.net>; Sat, 23 Dec 1995 11:15:39 -0600  
Message-ID: <01BAD127.FDC9CAE0@lub02.onramp.net>  
From: Larry Griffin <largriff@onramp.net>  
To: "'aprssig@tapr.org'" <aprssig@tapr.org>  
Subject: Re:[APRSSIG:5495] Ultimeter 2000  
Date: Sat, 23 Dec 1995 11:08:13 -0600  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Why don't you just call Peet Bros and ask for Bill. Peet's literature invites  
programmers to call for info on the output formats.

Larry Griffin <largriff@onramp.net>  
Now using Microsoft Exchange... without unwanted attachments!

-----

.....

Just an FYI with and imbedded question.

Now for the imbedded question; any clue on how to decode any of them? I'd like to do some visual basic stuff for the U2000 and I've used every search engine on the internet to find any info on the format, I only got a grand total of 10 hits out of 23 diffrent search engines :-)

## Datalog Mode

!!005400AC00D2000027FD02B8-----01630509

```
[all current readings + peak wind over 5 min + 3 hour pressure Change  
+ calibration numbers + time and date]
```

## Complete Record Mode

[illegible]

Chastise me if this was to lengthy or irelavent to this list or better yet tell this dumb Iowa boy what to spin his magic decoder ring to in order to unravel the peet treat.

From jerdptro@xnet.com Sat Dec 23 12:08:22 1995  
Received: from flood.xnet.com (flood.xnet.com [198.147.221.35]) by sys1.tapr.org  
(8.7.2/8.7.2) with ESMTP id MAA05865 for <aprssig@tapr.org>; Sat, 23 Dec 1995  
12:08:19 -0600 (CST)

Received: from n9vhw.xnet.com by flood.xnet.com (8.7/XNet-1.4R) with SMTP  
id MAA05968 for <aprssig@tapr.org>; Sat, 23 Dec 1995 12:01:25 -0600 (CST)  
Message-Id: <199512231801.MAA05968@flood.xnet.com>  
Comments: Authenticated sender is <jerdptro@quake.xnet.com>  
From: "Jerry" <jerdptro@xnet.com>  
To: aprssig@tapr.org  
Date: Sat, 23 Dec 1995 12:08:09 +0000  
Subject: Re: [APRSSIG:5504] E-mail to 73  
Reply-to: jerdptro@xnet.com  
Priority: normal  
X-mailer: Pegasus Mail for Windows (v2.20)

WAYNE'S ADDRESS is profusion@aol.com

> Date: Sat, 23 Dec 1995 10:43:45 -0600 (CST)  
> Reply-to: aprssig@tapr.org  
> From: Homingin@aol.com  
> To: aprssig@tapr.org  
> Subject: [APRSSIG:5504] E-mail to 73  
  
> jerdptro@xnet.com (Jerry) wrote:  
> >I think I get the cupie doll. I was able to find Wayne Green's  
> >E-Mail address on the net, so I forwarded the APR Trak info to him  
>  
> I hope your address source is current. 73 just had another change of editors  
> and e-mail address. If you sent it to ProFusion@aol.com, it probably won't  
> get to Wayne or the 73 staff. The new address for the 73 editorial office is  
> Design73@aol.com. The new 73 Staff Editors are Richard Lubash and Bill  
> Fosher. If your Rolodex says anyone else is Staff Editor or Senior Editor,  
> it's time to update (again).  
>  
> This info is based on a phone conversation today (12/22) with Joyce Sawtelle  
> in Peterborough. Hope it helps.  
>  
> 73 de Joe K00V  
> 73 Contributing Editor  
> Homingin@aol.com (my address, not 73's)  
>  
> P.S. It's probably still not too late for the March issue.  
>  
>  
Jerry Di Pietro  
N9VHW  
Streamwood, IL  
jerdptro@xnet.com

From gwyn@paccomm Sat Dec 23 13:56:10 1995  
Received: from paccomm.com ([163.125.30.1]) by sys1.tapr.org (8.7.2/8.7.2) with  
SMTP id NAA09141 for <aprssig@tapr.org>; Sat, 23 Dec 1995 13:56:02 -0600 (CST)  
Received: by paccomm.com (Smail3.1.29.1 #1)  
id m0tTa2C-000FPWC; Sat, 23 Dec 95 14:55 EST  
Date: Sat, 23 Dec 1995 19:55:08 +0000 (GMT)

From: "Gwyn Reedy, W1BEL" <gwyn@paccomm>  
To: aprssig@tapr.org  
Subject: Re: [APRSSIG:5455] APRS on voice repeaters  
In-Reply-To: <2.2b10.32.19951221180606.0072b36c@144.188.134.33>  
Message-ID: <Pine.LNX.3.91.951223194929.160E-100000@paccomm>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 21 Dec 1995, Paul Moller wrote:

>

> I would like to open a discussion on the topic of APRS information via voice  
> repeaters. Some topics are: What data rate is advisable? Is the repeater  
> being used as a digi, a frequency transponder, or just a powerful  
> transmitter/ sensitive receiver connected to a good antenna that can hear  
> stuff from a long way away? How does one get around the problem that the  
> repeaters are not on the APRS freq in the local area? Does that mean there  
> are multiple APRS freqs in one local area, and they are different from those  
> in the next city over? Well my questions can go on for a while.

Bob (APR) is on vacation for a few days and I don't know if he will be on the SIG during that time. (You have to take long trips on vacation to creat new and interesting HST files!)

Beginning about a year ago, Bob was discussing his plan for using voice repeaters. His Mic encoder (which has been quite delayed but is coming along just fine now) would be used by mobiles on the repeater frequencies. A position report can be sent in about .3 second during the squelch tail of the repeater. A special TNC at the repeater copies the packet position reports, blocks them from being repeated on the repeater output, and retransmits them on the local APRS frequency.

Perhaps some hardy soul will make a special archive of the APRS messages dealing with this topic.

This type of equipment is going to be available commercially. Count on it. I'll defer further comment to APR when he gets back on the net.

73 and happy holidays,  
Gwyn, W1BEL

From kc6wya@bdt.com Sat Dec 23 14:50:19 1995  
Received: from bdt.bdt.com (root@bdt.com [140.174.173.10]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id OAA10984 for <aprssig@tapr.org>; Sat, 23 Dec 1995 14:50:16 -0600 (CST)  
Received: by bdt.bdt.com (/oo/\ Smail3.1.29.1 #29.6)  
id <m0tTauI-000bn2C@bdt.bdt.com>; Sat, 23 Dec 95 12:51 PST  
Message-Id: <m0tTauI-000bn2C@bdt.bdt.com>  
Date: Sat, 23 Dec 95 12:51 PST  
Received: from noident@kc6wya.dial-up.bdt.com(204.188.159.47) by bdt via smap (V1.3bdt)  
id sma005204; Sat Dec 23 12:50:29 1995  
X-Sender: kc6wya@bdt.com



X-Mailer: Windows Eudora Version 1.4.4  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: aprssig@tapr.org  
From: kc6wya@bdt.com (Barry Winkler)  
Subject: Re: [APRSSIG:5467] WinAPRS beta

hello mark,  
name here is barry winkler kc6wya  
i am one of the key players in the san francisco bay area.  
i am the person the worked with sam ko6jr at Pacificon and i do  
a tuesday net on aprs for over a year.  
if there is any way i can get on the beta testing or an copy befor you you  
go on the sig, so when i get boomed with questions i can answer them.  
we have about 20 digis on line from checo. ca in th north to la area south.

i just want to thank you for all your work with mac aprs and now with ibm aprs.

when sam ko6jr did his thing at Pacificon your work came out in every one.  
his demo was first class and we got alot of users from it.

thanks and have a good xmas and a happy new year  
barry winkler kc6wya

>look correct, but it got messed up any way. So here it is again, this time  
>hopefully, much easier to read)  
>  
>WinAPRS beta status  
>  
>As promised, we will be releasing WinAPRS beta by Christmas, however, the  
>first release will be to about a dozen individuals.  
>  
>!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!  
>!!! IMPORTANT  
>!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!  
>We are restricting the first release so that we can keep on top of things  
>for the first try. Once we have had a couple of weeks to get feed back from  
>these people then we will be releasing a general beta version.  
>  
>By the end of January, we will have a generally available beta for everyone  
>to try.  
>!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!  
>  
>Here are a few notes about WinAPRS:  
>  
>1) WinAPRS is going far better than I could have even imagined. I have far  
>more features implemented that I expected by time for beta release. The  
>common source implementation with MacAPRS is working out very well. The  
>development environment that I am using, CodeWarrior, which allows me to  
>write, compile, and debug Windows programs from my Mac has been working  
>great.

>  
>2) WinAPRS is a "WINDOWS" application, it is NOT a DOS application, so the  
>user interface follows Windows guide lines.  
>  
>3) WinAPRS is a Win32 application. This means that it runs under Windows95  
>and WindowsNT. To run under Windows3.1, the Win32S DLL will be required.  
>Win32S is free and available off of the internet. See the on-line  
>documentation for more info about Win32S.  
>  
>4) WinAPRS uses the MacAPRS file format AND the DOS-APRS file format. This  
>means that all of the hi-resolution maps for MacAPRS will work directly AND  
>all of the maps that have been made by APRS users.  
>  
>5) I have started some documentation, it can be seen at  
> <http://www-ns.rutgers.edu/~ksproul/APRS/>  
>  
>  
>We will keep you informed about the progress, keep watching the Web page  
>for updates.  
>  
>  
>  
>Mark Sproul  
>KB2ICI  
>  
>  
>  
#####  
#####  
\*\*\*\*\*kc6wya@bdt.com\*\*\*\*\*  
\*\*\*\*\*  
The world of Ham Radio and all its fun. APRS IS ALIVE IN NORTHERN Ca.  
BARRY KC6WYA ON PACKET 145.010 SE YA ON THE AIR 440.650 OR 1284.200  
-----  
-----

From dbarrow@omnifest.uwm.edu Sat Dec 23 16:47:52 1995  
Received: from uwm.edu (uwm.edu [129.89.6.2]) by sys1.tapir.org (8.7.2/8.7.2) with  
ESMTP id QAA14212 for <aprssig@tapir.org>; Sat, 23 Dec 1995 16:47:49 -0600 (CST)  
Received: from omnifest.uwm.edu (omnifest.uwm.edu [129.89.70.58]) by uwm.edu  
(8.7.1/8.6.9) with SMTP id QAA25032 for <aprssig@tapir.org>; Sat, 23 Dec 1995  
16:47:45 -0600 (CST)  
Received: by omnifest.uwm.edu; (5.65/1.1.8.2/17Sep94-0940PM)  
id AA21972; Sat, 23 Dec 1995 16:47:44 -0600  
Date: Sat, 23 Dec 1995 16:47:44 -0600  
From: "David W. Barrow III" <dbarrow@omnifest.uwm.edu>  
Message-Id: <9512232247.AA21972@omnifest.uwm.edu>  
To: aprssig@tapir.org  
Subject: Gwyn address

Gwyn,  
Sorry to take the bandwidth BUT

gwyn@paccomm.csd.uwm.edu  
gets returned as unknown.....

Can you email me a better address?

CUL & 73 de Dave

=====

David W. Barrow III \* Amateur Radio:N9UNR \* Internet:dbarrow@omnifest.uwm.edu  
U.S.Snail:1894 Elm Drive, Town of Cedarburg, West Bend, Wisconsin 53095-9603  
Ma Bell:(414) 375-2667 \* Amateur Packet:N9UNR@N9PBY.EN63BI.WI.USA.NOAM  
Sysop:Amateur Radio Section (phone 229-6664, Logon:visitor,At any menu:go ham  
=====

From KSwaggart@aol.com Sat Dec 23 17:03:18 1995  
Received: from emout04.mail.aol.com (emout04.mail.aol.com [198.81.10.12]) by  
sys1.tapr.org (8.7.2/8.7.2) with SMTP id RAA14795 for <aprssig@tapr.org>; Sat, 23  
Dec 1995 17:03:14 -0600 (CST)  
From: KSwaggart@aol.com  
Received: by emout04.mail.aol.com (8.6.12/8.6.12) id SAA03605 for  
aprssig@tapr.org; Sat, 23 Dec 1995 18:02:40 -0500  
Date: Sat, 23 Dec 1995 18:02:40 -0500  
Message-ID: <951223180239\_78152593@emout04.mail.aol.com>  
To: aprssig@tapr.org  
Subject: More MKMAPKKE tweaks and fixes.

Another update of MKMAPKKE has been uploaded to  
tapr.org:/tapr/SIG/aprssig/upload

In this update:

Incorporated BLOCKED/UNBLOCKED feature from MKMAPHK2 so an extra step is  
not required when using files downloaded via the Internet.

Reworked the + and - options so they work like the original MKMAPHK1 and  
wont crash as often.

Changed coast and riverbanks to color 11, bright cyan, to conform to  
standard APRS  
colors. Also allows you to delete streams, which a dim cyan, when you are  
paring down  
your map points without affected rivers and coastlines.

Added historical railroad catagories for the old rail buffs. These plot in  
dim orange or dim violet to stand out from normal railroads.

Extracted the date of the map file data and display it and the quad name  
while the map is building so you know how old the map data is. Some of these  
files on my CD ROM show dates of 1974!

I have not been able to add error trapping routines so that it gracefully  
crashes when it gets too many points. Also, have not yet added any loops back  
to the start so you do not have to reenter the same data for the next map.  
These are in the future, I think.

73 & Merry Christmas, and Happy Map Making in the New Year.

Ken, W7KKE

From JCornel954@aol.com Sun Dec 24 04:44:04 1995  
Received: from mail02.mail.aol.com (mail02.mail.aol.com [152.163.172.66]) by  
sys1.tapr.org (8.7.2/8.7.2) with SMTP id EAA11304 for <aprssig@tapr.org>; Sun, 24  
Dec 1995 04:44:02 -0600 (CST)  
From: JCornel954@aol.com  
Received: by mail02.mail.aol.com (8.6.12/8.6.12) id FAA06161 for aprssig@tapr.org;  
Sun, 24 Dec 1995 05:43:30 -0500  
Date: Sun, 24 Dec 1995 05:43:30 -0500  
Message-ID: <951224054329\_78357649@mail02.mail.aol.com>  
To: aprssig@tapr.org  
Subject: Re: [APRSSIG:5450] APRS/S Claus

This is going to be tricky. Here in Hawaii S. Claus will have to do some  
maneuvering, due to the mountains and all the highrise buildings. Shoot he'll  
probably put the comacussays piolets of WWII to shame. But we will be keeping  
a eye out for him.

Can you see it. Santa going home in a hawaiian flower shirt, shorts, flip  
flops, with a surf board and sun burnt.

73's

James

N9QIN

From schiers@ibm.net Sun Dec 24 07:40:34 1995  
Received: from smtp-gw01.ny.us.ibm.net ([165.87.194.252]) by sys1.tapr.org  
(8.7.2/8.7.2) with SMTP id HAA15729 for <aprssig@tapr.org>; Sun, 24 Dec 1995  
07:40:31 -0600 (CST)  
Received: (from uucp@localhost) by smtp-gw01.ny.us.ibm.net (8.6.9/8.6.9) id  
NAA28278 for <aprssig@tapr.org>; Sun, 24 Dec 1995 13:40:28 GMT  
Message-Id: <199512241340.NAA28278@smtp-gw01.ny.us.ibm.net>  
Received: from slip230-66.mo.us.ibm.net(129.37.230.66) by smtp-gw01.ny.us.ibm.net

via smap (V1.3mjr)  
id smaSHEDFW; Sun Dec 24 13:40:23 1995  
Date: Sun, 24 Dec 95 00:15:34 EST  
From: schiers@ibm.net (hasan schiers)  
Reply-To: schiers@ibm.net (hasan schiers)  
To: aprssig@tapr.org  
X-Mailer: hasan schiers's PMMail v1.1  
Subject: Re: [APRSSIG:5505] Re: GPS and missiles

On Sat, 23 Dec 1995 10:45:02 -0600 (CST) you wrote:

>Wx station support - That IS part of APRS, like it or not.

Yes, and judging from the # of WX stations showing up on APRS, it is a popular part.

>GPS accuracy - Wonderful tutorial information. Cannot understand why  
>anyone interested in APRS would not also be interested in this.

Agreed.

>SA and reasons therefore - Same answer as GPS accuracy comment above. It  
>is good to read this technical information so well presented. The  
>rational for having SA is also useful, since it is something we have to  
>live with in using GPS.

Yep.

>Drifting into the politics of who pays for it, who misuses it (missiles)  
>etc is too far out of line (IMHO). But I'm not going to shout or  
>unsubscribe...

I couldn't agree more. Unfortunately, if anyone has the timerity to suggest that something has strayed off topic, one runs into the "I have the right to do any damn thing I want and you should do what you need to, to deal with it" mentality. A real sense of cooperation, accommodation and consideration, reminiscent of 20 meters. It is equally unfortunate that discussions tend to dichotomize into two syndromes:

1. I got mine, you got a problem? Stick it in your ear.
2. If I don't get my way, I am going to pick up my toys and go home.

Neither is particularly useful. Both are immature.

73,

robert "hasan" schiers  
Ham Radio Packet: n0an@n0an.ia.usa.noam

From n4nr@vulcan.com Sun Dec 24 08:08:07 1995  
Received: from koala.scott.net (root@koala.scott.net [204.181.147.2]) by

sys1.tapir.org (8.7.2/8.7.2) with ESMTP id IAA16458 for <aprssig@tapir.org>; Sun, 24 Dec 1995 08:08:05 -0600 (CST)  
Received: from news.scott.net (news.scott.net [204.181.147.3]) by koala.scott.net (8.7.3/8.7.3) with ESMTP id IAA08502 for <aprssig@tapir.org>; Sun, 24 Dec 1995 08:08:09 -0600  
Received: from vulcan.UUCP (vulcan@localhost) by news.scott.net (8.6.10/8.6.9) with UUCP id IAA20236 for aprssig@tapir.org; Sun, 24 Dec 1995 08:01:46 -0600  
To: aprssig@tapir.org  
Subject: Re: [APRSSIG:5511] Gwyn address  
From: n4nr@vulcan.com (N4NR)  
Message-ID: <8B781D8.00120005E0.uuout@vulcan.com>  
Date: Sun, 24 Dec 95 07:52:00 -0600  
Organization: Vulcan Communications - vulcan.com (sm)  
Reply-To: n4nr@vulcan.com (N4NR)  
References: <9512232247.AA21972@omnifest.uwm.edu>  
X-Mailreader: PCBoard Version 15.22  
X-Mailer: PCBoard/UUOOUT Version 1.20

-> gwyn@paccomm.csd.uwm.edu  
-> gets returned as unknown.....  
->  
-> Can you email me a better address?

Try gwyn@paccomm.com

Merry Christmas,

Dennis - N4NR  
n4nr@vulcan.com

From dvelez@norfolk.infi.net Sun Dec 24 09:11:58 1995  
Received: from moe.infi.net (moe.infi.net [198.22.1.119]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id JAA18695 for <aprssig@tapir.org>; Sun, 24 Dec 1995 09:11:54 -0600 (CST)  
Received: from dvelez.infi.net by moe.infi.net with SMTP (Infinet-S-3.3) id KAA13948; Sun, 24 Dec 1995 10:11:48 -0500  
Message-Id: <199512241511.KAA13948@moe.infi.net>  
To: aprssig@tapir.org  
Subject: For Sale! (fwd)  
From: dvelez@norfolk.infi.net (Daniel Velez)  
Reply-To: dvelez@norfolk.infi.net  
Organization: Customer of InfiNet  
Date: Sun, 24 Dec 95 10:10:47  
X-Mailer: WinVN 0.99.6  
References: <4bfmt8\$1ie2@news-s01.ny.us.ibm.net>  
MIME-Version: 1.0  
Content-Type: Text/Plain; charset=US-ASCII

Perhaps an inexpensive way to get a GPS for that tracker!

=====  
Original post - edited for brevity  
=====

From: jwelter@ibm.net (John Welter)  
Newsgroups: sci.geo.satellite-nav  
Subject: For Sale!  
Date: 23 Dec 1995 01:44:08 GMT

I've got many many Leica GPS engines for sale. All units are DGPS capable, and some also have phase information output for high accuracy processing. These units are intended for EMBEDDED systems as they are a circuit board with two serial ports. Also for sale are antenna's for the above units. Also for sale numerous MX-4200D units which are basically a packaged version of the above engines without display. They are intended for PC interfacing and have 4 com ports that support RS-232, NMEA, and RS-485?

=====  
His response to my \$\$\$ question, also edited  
=====

From: jwelter@ibm.net  
To: dvelez@norfolk.infi.net  
Subject: Re: For Sale!

All are RTCM DGPS ready. We've used them with two big DGPS service providers in the States (DCI and AccuPoint) with 2-5m accuracies...We've also done some phase processing with them and you can expect better then 5ppm if you're careful to maintain lock...Price for the engines is \$100, MX-4200's \$200, Phase option on either is \$50, and a Aircraft TSO'd antenna is \$50.

I've got about 10 engines right now and 8 MX's left. They sell like hotcakes!  
=====

73 de Dan N4WZR

From JeffS5@aol.com Sun Dec 24 18:05:22 1995  
Received: from emout06.mail.aol.com (emout06.mail.aol.com [198.81.10.43]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id SAA05464 for <aprssig@tapr.org>; Sun, 24 Dec 1995 18:05:21 -0600 (CST)  
From: JeffS5@aol.com  
Received: by emout06.mail.aol.com (8.6.12/8.6.12) id TAA08098 for aprssig@tapr.org; Sun, 24 Dec 1995 19:04:45 -0500  
Date: Sun, 24 Dec 1995 19:04:45 -0500  
Message-ID: <951224190444\_23140463@emout06.mail.aol.com>  
To: aprssig@tapr.org  
Subject: To all the Whiners . . .

I have sat here for 2 weeks listening to all the complaining about who thinks what's important to this SIG (in their opinion). This SIG was founded on APRS. APRS was founded BECAUSE of GPS. GPS was founded in part to get missiles home and on-time. Is this related to APRS? Yes! There is NO ONE on this SIG that's not interested or facinated by the concept of GPS, how it works, and why. GPS is the basic building block of APRS and this SIG. There are newcomers to GPS, APRS, & this SIG constantly signing-on that really don't have a clue how things work, or why. IT'S THESE PEOPLE WHO ARE GONA MAKE APRS FLY IN THE AMATEUR WORLD FOLKS! If Gerry wants to give the long version of how GPS works on missiles, let him! He is, by far more qualified to speak than

most who are here. Frankly I enjoyed it!

For those who complain that they're paying for each E-Mail message they receive, I suggest you look around at changing servers. There are PLENTY who charge flat rate for their services. AOL is one if you prefer the giant servers, and Earthlink is another as a WWW provider. Those that can't get local phone access and are paying LD charges, buy a faster modem!

Bottom Line: QUIT COMPLAINING for cryin' out loud!

There's no need to fwd your opinions about who sent what to where and whether or not YOU deem it fit for APRS. If you can't resist complaining, send it direct, but quit complaining to the SIG. We're not interested!

Can't stand it anymore and HAVE to sign-off?: 73 & SEE YA!

I hope you who are doing the whining are just about thru cause I'm getting tired of mass deletes.

Happy Holidays,

Jeff - WA6EQU

From wd5ivd@tapr.org Sun Dec 24 21:07:48 1995

Received: (from wd5ivd@localhost) by sys1.tapr.org (8.7.2/8.7.2) id VAA10925 for aprssig@tapr.org; Sun, 24 Dec 1995 21:07:47 -0600 (CST)

From: Greg Jones <wd5ivd@tapr.org>

Message-Id: <199512250307.VAA10925@sys1.tapr.org>

Subject: Re: [APRSSIG:5517] To all the Whiners . . .

To: aprssig@tapr.org

Date: Sun, 24 Dec 1995 21:07:47 -0600 (CST)

In-Reply-To: <951224190444\_23140463@emout06.mail.aol.com> from "JeffS5@aol.com" at Dec 24, 95 06:07:01 pm

X-Mailer: ELM [version 2.4 PL25]

Content-Type: text

>

> For those who complain that they're paying for each E-Mail message they  
> receive, I suggest you look around at changing servers. There are PLENTY who  
> charge flat rate for their services. AOL is one if you prefer the giant  
> servers, and Earthlink is another as a WWW provider. Those that can't get  
> local phone access and are paying LD charges, buy a faster modem!

>

If you are paying by the message -- you can put any TAPR SIG mailing group into what is called digest mode.

Send e-mail to listserv@tapr.org

in the body of the message say

set aprssig digest



This will cause one message a day to be sent containing all the messages from the sig that day.

Maybe this will help.

If you are not familiar with how Internet lists work, what has been happening on APRS SIG with diverse topics happening at the same time -- this is pretty normal. Just press delete if you read something you don't like and keep an eye on the subject line.

Merry Xmas and Happy Holidays!

Greg

From wd5ivd@tapr.org Mon Dec 25 09:29:40 1995  
Received: (from wd5ivd@localhost) by sys1.tapr.org (8.7.2/8.7.2) id JAA04392 for aprssig@tapr.org; Mon, 25 Dec 1995 09:29:39 -0600 (CST)  
From: Greg Jones <wd5ivd@tapr.org>  
Message-Id: <199512251529.JAA04392@sys1.tapr.org>  
Subject: digest mode  
To: aprssig@tapr.org (BBS SIG mailing)  
Date: Mon, 25 Dec 1995 09:29:39 -0600 (CST)  
X-Mailer: ELM [version 2.4 PL25]  
Content-Type: text

Looks like I might have left out an option in my last message I posted. Thanks to Henry on AOL for catching this error.

The command looks to be

set aprssig mail digest

I left out the mail option in the eariler message.

Hopefully that works. All the commands are availavle if you send the command help in the message to the body.

Hope everyone is having a nice holiday break.

Cheers - Greg

From MooreKD1E@aol.com Mon Dec 25 17:36:36 1995  
Received: from mail06.mail.aol.com (mail06.mail.aol.com [152.163.172.108]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id RAA18917 for <aprssig@tapr.org>; Mon, 25 Dec 1995 17:36:34 -0600 (CST)  
From: MooreKD1E@aol.com  
Received: by mail06.mail.aol.com (8.6.12/8.6.12) id SAA21933 for aprssig@tapr.org; Mon, 25 Dec 1995 18:36:02 -0500  
Date: Mon, 25 Dec 1995 18:36:02 -0500  
Message-ID: <951225183601\_23623515@mail06.mail.aol.com>  
To: aprssig@tapr.org

Subject: Use of APRS at National Weather Service sites

I am the amateur radio liaison for the SE Michigan office of the National Weather Service. This White Lake MI WSFO has the warning responsibility for 17 counties in SE lower MI. APRS is one of the reporting systems we give to the NWS operators. I am interested in communicating with other amateurs that support National Weather Service offices across the nation using APRS. Thank you:

John Moore, KD1E  
moore kd1e@aol.com

From KD4EMI@aol.com Mon Dec 25 21:27:05 1995  
Received: from mail06.mail.aol.com (mail06.mail.aol.com [152.163.172.108]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id VAA24801 for <aprssig@tapir.org>; Mon, 25 Dec 1995 21:27:03 -0600 (CST)  
From: KD4EMI@aol.com  
Received: by mail06.mail.aol.com (8.6.12/8.6.12) id WAA19799 for aprssig@tapir.org; Mon, 25 Dec 1995 22:26:30 -0500  
Date: Mon, 25 Dec 1995 22:26:30 -0500  
Message-ID: <951225222629\_23741524@mail06.mail.aol.com>  
To: aprssig@tapir.org  
Subject: This isnt about missiles or flames.

Here is an interesting thing I ran into . Think I should share it with the sig.

I run my KPC on battery mode usually when Im mobile.  
When the battery runs down, the xmit audio becomes unreadable and I know its time to change the 9v battery.

This has become a hassle as I usually am leaving the tracker on.  
Wired up the KPC to the car battery..Left the 9v battery in there.

Come to find out, when the 9V battery runs dead, even with external power applied, the TNC gets moody and xmit audio is garbled. Sure enough, take out the battery, (taped up the open 9V connector so it wont touch anything inside) and boom, the tnc works again. Therefore...if your having a problem, even when external power is applied, check the 9v battery.  
I duplicated this test with a dead 9v battery on my other kpc 3. Again, it did not work properly, even when external power was applied.

Now I operate without the battery and the lithium keeps the important data.  
73,  
Mike KD4EMI@ AOL.COM

From KD4EMI@aol.com Mon Dec 25 21:27:44 1995  
Received: from emout04.mail.aol.com (emout04.mail.aol.com [198.81.10.12]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id VAA24826 for <aprssig@tapir.org>; Mon, 25 Dec 1995 21:27:41 -0600 (CST)  
From: KD4EMI@aol.com  
Received: by emout04.mail.aol.com (8.6.12/8.6.12) id WAA18275; Mon, 25 Dec 1995 22:26:33 -0500

Date: Mon, 25 Dec 1995 22:26:33 -0500  
Message-ID: <951225222632\_23741550@emout04.mail.aol.com>  
To: aprssig@tapr.org  
cc: 0004818186@mcimail.com  
Subject: question and info

#1 is anyone using aprs on 6 meters?  
And if so, any activity there? I would like to try it on my new 706 but  
havent heard even a BRAAAP on 6 meters.

#2

There exists these small stamp sized "computers"  
They are great for applications involving analog to digital  
conversions and have rs232 compatable ports, programable in "basic"  
and are inexpensive.  
KC4NMY and myself are developing a small stamp that hooks up to  
a cheap wx radio. For those in area's that dont have APRS wx stations,  
or  
for possible skywarn applications (without the peet wx station, which doesnt  
know if a tornado is inbound until its on top of it) this chip will  
monitor the alert tone on a wx radio.  
When the Radio shack wx beep goes off, indicating a wx emergency,  
the chip hears this and programs the tnc with a previosly decieded  
text. This txt can be set up in aprs format to set off your  
wx alarms on your computer, or be set up with another tnc/chip that can read  
the alert, and dial up a beeper list if needed. Your aprs program  
will  
alert you to a problem, and if your in the car or outside, your beeper could  
alert you. REMIND you that it is a generic alert, and tells you that  
bad wx is coming, not the nature of the wx emergency but at least it is  
another way to remind you to investigate the wx situation.

The cost of an entire kit could be less than \$100.

I (we) need feedback from the sig about how to change this basic  
premise of operation to better suit their needs.  
What would your specific need be?  
What modification to this basic idea would you suggest?

Thanks in advance. Mike KD4EMI@AOL.COM  
(but please reply in the sig to encourage feedback)

From aps@world.std.com Mon Dec 25 23:41:10 1995  
Received: from europe.std.com (europe.std.com [192.74.137.10]) by sys1.tapr.org  
(8.7.2/8.7.2) with SMTP id XAA29130 for <aprssig@tapr.org>; Mon, 25 Dec 1995  
23:41:07 -0600 (CST)  
Received: from world.std.com by europe.std.com (8.6.12/Spike-8-1.0)  
id AAA09472; Tue, 26 Dec 1995 00:40:59 -0500  
Received: by world.std.com (5.65c/Spike-2.0)  
id AA02055; Tue, 26 Dec 1995 00:37:45 -0500  
Date: Tue, 26 Dec 1995 00:37:45 -0500  
From: aps@world.std.com (Armando P Stettner)  
Message-Id: <199512260537.AA02055@world.std.com>

To: aprssig@tapr.org  
Subject: Re: [APRSSIG:5502] Re: Ultimeter 2000  
Cc: jwasmuth@indy.net, barrettd@crpl.cedar-rapids.lib.ia.us, mead@skat.usc.edu  
Reply-To: aps@ieee.org

Hi gang.

Here are the details for the Peet Brothers Company's Ultimeter 2000 and Model 500 systems' serial communications. I don't know how this relates to the Ultimeter II.

Enjoy,  
aps.

Armando Stettner  
aps@ieee.org, N1TYG

Communications Details for the Ultimeter 2000 (and 500)  
Abridged by Armando Stettner (N1TYG) from the  
Peet Brothers Company's "Serial Data Specification 12/7/95"

#### Overall Descriptions

-----  
2400 baud, 8 bits, 1 stop bit, no parity. Each byte is a printable ASCII character representing one hex digit. Data is most significant digit first.

There are 4 modes of communications with/from the U2000. Each mode is entered by pressing and holding for 3 seconds, a two key combination. Each mode sends a specific data record with a mode specific header character string.

The enabling key combination, header string and record contents are listed below. In general, the 4 operating modes are:

1. Data Logging mode where data is output continuously. This mode is the default mode for the system.
2. Packet mode, where data is output every 5 minutes.
3. Modem mode, where the U2000 will respond to commands it receives. This appears to be another way to set various configuration parameters.
4. Complete Record mode, where the data is also output continuously. This mode is not available on the Model 500.

#### Data Format and Precision Notes

-----

Wind speed: 0.1 knots per hour  
Wind direction: 0-255  
Temperatures: 0.1 degrees F  
Rain: 0.01 inches  
Pressures: 0.1 mbar  
Humidity: 0.1%  
Date: day of the year (January 1 = 0)  
Time: minute of the day

The notion of 'today' and 'yesterday' occurs between midnight and midnight. So, today's high is calculated within the range of midnight and the current time.

## Record Structures

-----

\*\*\*\* DATA LOGGING Mode \*\*\*\*

Enabling key combination: CLEAR & WIND SPEED for 3 seconds

Header string: '!!' (two exclamation marks, not including the quotation marks)

Record size: 40 hex digits + header, carriage return and line feed.

Record detail:

Element	Data Item	Hex Digits
1	Wind speed	4
2	Wind direction	4
3	Outdoor temp	4
4	Rain	4
5	Barometric pressure	4
6	Indoor temp	4
7	Outdoor humidity	4
8	Indoor humidity	4
9	Date (day of year)	4
10	Time (minute of day)	4
	Carriage Return, Linefeed	4

-----

\*\*\*\* Packet Mode \*\*\*\*

Enabling key combination: CLEAR & WIND CHILL for 3 seconds

Header string: '\$ULTW' (not including the quotation marks)

Record size: 44 hex digits

Record detail:

Element	Data Item	Hex Digits
1	Wind speed peak over last 5 min.	4
2	Wind direction of wind speed peak	4
3	Current outdoor temp	4
4	Rain total for today	4
5	Current barometric pressure	4
6	Barometer delta value (0.1 mbar)	4
7	Barometer correction factor (LSW)	4
8	Barometer correction factor (MSW)	4
9	Current outdoor humidity	4
10	Date	4
11	Time	4

-----

\*\*\*\* Modem Mode \*\*\*\*

Enabling key combination: CLEAR & TEMPERATURE for 3 seconds

Header string: '>n' (beginning of each line, where n goes from 'A' to 'K')

Record size: not applicable

Record detail:

Command	Syntax	Hex digits in date
- Set date of year/time of day in minutes	>Addddtttt	4 + 4
- Set wind direction correction factor	>Bwww	3
- Set rain gage increments 0=0.01; 1=0.1	>Ci	1
- Set Barometric correction factor	>Dbbbbbbbb	8
- Set sea level barometric value	>Ebbbbbb	5
- Set leap year value (0-3)	>F1	1
- Master reset	>G	0
- Send 1 complete record	>H	0
- Set data logging mode	>I	0
- Set Packet mode	>J	
- Set modem mode	>K	

-----

\*\*\*\* Complete Record Mode \*\*\*\*

Enabling key combination: CLEAR & RAIN for 3 seconds

Header string: '&CR&' (including the quotation marks)

Record size: 448 hex digits

Record detail:

Element	Data Item	Hex Digits
1	Windspeed	4
2	Current wind direction	4
3	Wind speed peak	4
4	Wind direction peak	4
5	Wind chill	4
6	Outdoor temp	4
7	Rain total for today	4
8	Barometric pressure	4
9	Barometer delta value	4
10	Barometer Correction Factor (LSW)	4
11	Barometer Correction Factor (MSW)	4
12	Indoor temp	4
13	Outdoor humidity	4
14	Indoor humidity	4
15	Dew point	4
16	Date	4
17	Time	4
18	Low wind chill for today	4
19	Time of low wind chill	4
20	Yesterday's low chill value	4
21	Time of yesterday's low chill	4
22	Date of long term low chill	4
23	Long term low chill value	4
24	Time of low chill value	4
25	Today's low outdoor temp	4
26	Time of today's low outdoor temp	4
27	Yesterday's low outdoor temp value	4
28	Time of yesterday's low temp value	4
29	Date of long term outdoor low temp	4
30	Long term low outdoor temp value	4
31	Time of Long term outdoor temp	4
32	Today's low barometric pressure value	4
33	Time of today's low barometric value	4
34	Current wind speed	4
35	Current wind direction	4
36	Yesterday's low barometric pressure value	4
37	Time of yesterday's low barometric pressure	4
38	Date of long term low barometric pressure	4
39	Long term low barometric pressure value	4
40	Time of long term low barometric pressure	4
41	Today's low indoor temp value	4
42	Time of today's low indoor temp	4
43	Yesterday' low indoor temp value	4
44	Time of yesterday's low temp	4
45	Date of long term low indoor temp	4
46	Long term low indoor temp value	4

47	Long term low indoor temp time	4	
48	Today's low outdoor humidity value	4	
49	Today's low outdoor humidity time	4	
50	Yesterday's low outdoor humidity value		4
51	Yesterday's low outdoor humidity time	4	
52	Long term low outdoor humidity date	4	
53	Long term low outdoor humidity value	4	
54	Long term low outdoor humidity time	4	
55	Today's low indoor humidity value	4	
56	Today's low indoor humidity time	4	
57	Yesterday's low indoor humidity value	4	
58	Yesterday's low indoor humidity time	4	
59	Long term low indoor humidity date	4	
60	Long term low indoor humidity value	4	
61	Long term low indoor humidity time	4	
62	Today's wind speed value	4	
63	Today's wind speed time	4	
64	Yesterday's wind speed value		4
65	Yesterday's wind speed time	4	
66	Long term wind speed date	4	
67	Long term wind speed value	4	
68	Long term wind speed time	4	
69	Today's high outdoor temp value		4
70	Today's high outdoor temp time		4
71	Wind speed	4	
72	Current wind direction		4
73	Yesterday's high outdoor temp value		4
74	Yesterday's high outdoor temp time		4
75	Long term high outdoor temp date		4
76	Long term high outdoor temp value		4
77	Long term high outdoor temp time	4	
78	Today's high barometric value		4
79	Today's high barometric time		4
80	Yesterday's high barometric value		4
81	Yesterday's high barometric time	4	
82	Long term high barometric pressure date		4
83	Long term high barometric pressure value	4	
84	Long term high barometric pressure time		4
85	Today's high indoor temp value	4	
86	Today's high indoor temp time	4	
87	Yesterday's high indoor temp value	4	
88	Yesterday's high indoor temp time	4	
89	Long term high indoor temp date	4	
90	Long term high indoor temp value	4	
91	Long term high indoor temp time	4	
92	Today's high outdoor humidity value	4	
93	Today's high outdoor humidity time	4	
94	Yesterday's high outdoor humidity value		4
95	Yesterday's high outdoor humidity time		4
96	Long term high outdoor humidity date	4	
97	Long term high outdoor humidity value	4	
98	Long term high outdoor humidity time	4	
99	Today's high indoor humidity value	4	



100	Today's high indoor humidity time	4	
101	Yesterday's high indoor humidity value		4
102	Yesterday's high indoor humidity time	4	
103	Long term high indoor humidity date	4	
104	Long term high indoor humidity value	4	
105	Long term high indoor humidity time	4	
106	Yesterday's rain total	4	
107	Long term rain date	4	
108	Long term rain total	4	
109	Leap year value (0-3)	4	
110	Wind direction correction factor value (0-255)	4	
111	Today's high wind direction	2	
112	Yesterday's high wind direction		2
113	Long term high wind direction		2
114	Spare.	2	

From barrettd@crpl.cedar-rapids.lib.ia.us Tue Dec 26 00:38:08 1995  
 Received: from CRPL.CEDAR-RAPIDS.LIB.IA.US (crpl.cedar-rapids.lib.ia.us [198.134.138.1]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id AAA05866 for <aprssig@tapr.org>; Tue, 26 Dec 1995 00:38:03 -0600 (CST)  
 Message-Id: <199512260638.AAA05866@sys1.tapr.org>  
 Received: from ppp-106.cedar-rapids.lib.ia.us by CRPL.CEDAR-RAPIDS.LIB.IA.US with SMTP;

Tue, 26 Dec 1995 0:37:39 -0600 (CST)  
 X-Sender: barrettd@crpl.cedar-rapids.lib.ia.us  
 X-Mailer: Windows Eudora Light Version 1.5.2  
 Mime-Version: 1.0  
 Content-Type: text/plain; charset="us-ascii"  
 Date: Tue, 26 Dec 1995 00:39:17 -0600  
 To: aprssig@tapr.org  
 From: "David E. Barrett" <barrettd@crpl.cedar-rapids.lib.ia.us>  
 Subject: SPRE it's Free [if you don't count taxes]

Well I hope all you christmas stuffed APRSer's are unzipping APRStrak and playing around with it, because it won't be long before the fund begins! SAY What!

I'm talking about the OAST Flyer that's going up on the next shuttle mission; one of the packages on OAST is SPRE Spartan Packet Radio Experiment.

It seem's some wacky folks in maryland and UMARA built this little packet dodad that is going to let you wonderful taxpayers digi your positions through a low earth orbit satellite. Seems it a 1200 baud AFSK AX.25 equipped package that will up and downlink on 145.55 hmmm seem it say here something about a program called APRtrak, well it even decodes the sat's telemetry data

Anyway if you want to know all the details heres some internet address' that should be of intrest to you!

<http://sspp.gsfc.nasa.gov/sp206.html>  
<http://w3eax.umd.edu/>  
<ftp://w3eax.umd.edu/pub/spre/>

Oh

your Welcome

David E. Barrett  
barrettd@crpl.cedar-rapids.lib.ia.us

If I can't give you a good sound reason  
I'll give you a reason that sounds good

From loflinj@mail.yamhillesd.k12.or.us Tue Dec 26 01:42:32 1995  
Received: from mail.yamhillesd.k12.or.us (mail.yamhillesd.k12.or.us  
[198.237.200.21]) by sys1.tappr.org (8.7.2/8.7.2) with ESMTP id BAA07810 for  
<aprssig@tappr.org>; Tue, 26 Dec 1995 01:42:28 -0600 (CST)  
Received: from [198.237.200.234] by mail.yamhillesd.k12.or.us  
with SMTP (MailShare 1.0b8); Mon, 25 Dec 1995 23:40:26 +0000  
Message-Id: <v01540700ad055784739a@[198.237.200.232]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Mon, 25 Dec 1995 23:42:49 -0800  
To: aprssig@tappr.org  
From: loflinj@mail.yamhillesd.k12.or.us (Jack Loflin)  
Subject: GPS systems

Hi all...

This is probably a little off topic...but...I would really like some information. Was wondering if any of you guys ordered your GPS systems from a place called Marine Electronics in Forked River, NJ. I found their site on the internet, but still a little shaky about buying stuff over the net...

73, Jack

From gwyn@paccomm Tue Dec 26 06:32:34 1995  
Received: from paccomm.com (paccomm.com [163.125.30.1]) by sys1.tapr.org  
(8.7.2/8.7.2) with SMTP id GAA14634 for <aprssig@tapr.org>; Tue, 26 Dec 1995  
06:32:21 -0600 (CST)  
Received: by paccomm.com (Smail3.1.29.1 #1)  
id m0tUYYH-000FQLC; Tue, 26 Dec 95 07:32 EST  
Date: Tue, 26 Dec 1995 12:32:20 +0000 (GMT)  
From: "Gwyn Reedy, W1BEL" <gwyn@paccomm>  
To: aprssig@tapr.org  
cc: aprssig@tapr.org  
Subject: Re: [APRSSIG:5515] Re: Gwyn address  
In-Reply-To: <8B781D8.00120005E0.uuout@vulcan.com>  
Message-ID: <Pine.LNX.3.91.951226122631.8406G-100000@paccomm>  
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

I've gotten a couple of messages like this over the holiday weekend.

We've changed from using TNOS under DOS to a LINUX system (and currently using PINE as a mailer) this past week. Possibly something has gone astray in the setup... the address xxx.csd.uwm.edu looks like something out of the PINE documentation, so it is probably an operator error here.

For the record, addresses:

gwyn@paccomm.com

paul@paccomm.com for Paul's personal hobby stuff

pe@paccomm.com for tech support from Paul

Happy Holidays to all.

Gwyn, W1BEL

On Sun, 24 Dec 1995, N4NR wrote:

```
> ->                gwyn@paccomm.csd.uwm.edu
> -> gets returned as unknown.....
> ->
> ->      Can you email me a better address?
>
> Try gwyn@paccomm.com
>
> Merry Christmas,
>
> Dennis - N4NR
> n4nr@vulcan.com
>
```

From jkerns@usit.net Tue Dec 26 07:29:12 1995

Received: from use.usit.net (use.usit.net [199.1.48.3]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id HAA16352 for <aprssig@tapir.org>; Tue, 26 Dec 1995 07:29:10 -0600 (CST)

Received: from bway-slip81.dynamic.usit.net (bway-slip81.dynamic.usit.net [204.194.172.127]) by use.usit.net (8.6.10/8.6.9) with SMTP id IAA04695 for <aprssig@tapir.org>; Tue, 26 Dec 1995 08:31:03 -0500

Message-Id: <199512261331.IAA04695@use.usit.net>

X-Sender: jkerns@usit.net

X-Mailer: Windows Eudora Version 1.4.4

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Date: Mon, 25 Dec 1995 20:24:53 -0500

To: aprssig@tapir.org

From: jkerns@usit.net (jim kerns)

Subject: Re: [APRSSIG:5525] GPS systems

>Hi all...

>

>This is probably a little off topic...but...I would really like some

>information. Was wondering if any of you guys ordered your GPS systems  
>from a place called Marine Electronics is Forked River, NJ. I found their  
>site on the internet, but still a little shaky about buying stuff over the  
>net...

>

>73, Jack

>

Hap[py New Year, Jack:

You should have put their URL in your msg. so we could all check it out.

I bought a Garman 50 from them over a year ago. They are reliable.

73 Jim in Tn. N4PUQ>

>

>

From largriff@onramp.net Tue Dec 26 07:29:49 1995

Received: from mailhost.onramp.net (mailhost.onramp.net [199.1.11.3]) by  
sys1.tapr.org (8.7.2/8.7.2) with SMTP id HAA16370 for <aprssig@tapr.org>; Tue, 26  
Dec 1995 07:29:47 -0600 (CST)

Received: from lub04.onramp.net (lub04.onramp.net [199.1.172.132]) by  
mailhost.onramp.net (8.6.12/8.6.5) with SMTP id HAA27547 for <aprssig@tapr.org>;  
Tue, 26 Dec 1995 07:29:44 -0600

Received: by lub04.onramp.net with Microsoft Mail

id <01BAD363.E7A6C7C0@lub04.onramp.net>; Tue, 26 Dec 1995 07:29:34 -0600

Message-ID: <01BAD363.E7A6C7C0@lub04.onramp.net>

From: Larry Griffin <largriff@onramp.net>

To: "'aprssig@tapr.org'" <aprssig@tapr.org>

Subject: Re: This isnt about missiles or flames.

Date: Tue, 26 Dec 1995 07:20:18 -0600

MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: 7bit

Sounds like you have a bad diode between the battery and the rest of the circuit.

-----

From: KD4EMI@aol.com[SMTP:KD4EMI@aol.com]

Sent: Monday, December 25, 1995 3:37 PM

To: aprssig@tapr.org

Subject: [APRSSIG:5521] This isnt about missiles or flames.

Here is an interesting thing I ran into . Think I should share it  
with the sig.

I run my KPC on battery mode usually when Im mobile.

When the battery runs down, the xmit audio becomes unreadable  
and I know its time to change the 9v battery.

This has become a hassle as I usually am leaving the tracker on.

Wired up the KPC to the car battery..Left the 9v battery in there.

Come to find out, when the 9V battery runs dead, even with external  
power applied, the TNC gets moody and xmit audio is garbled.

Sure enough, take out the battery, (taped up the open 9V connector so it won't touch anything inside) and boom, the tnc works again. Therefore...if you're having a problem, even when external power is applied, check the 9v battery. I duplicated this test with a dead 9v battery on my other kpc 3. Again, it did not work properly, even when external power was applied.

Now I operate without the battery and the lithium keeps the important data.  
73,  
Mike KD4EMI@ AOL.COM

From gwyn@paccomm.com Tue Dec 26 07:40:36 1995  
Received: from paccomm.com ([163.125.30.1]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id HAA16752 for <aprssig@tapir.org>; Tue, 26 Dec 1995 07:40:30 -0600 (CST)  
Received: by paccomm.com (Smail3.1.29.1 #1)  
id m0tUZcF-000FQLC; Tue, 26 Dec 95 08:40 EST  
Date: Tue, 26 Dec 1995 13:40:31 +0000 (GMT)  
From: "Gwyn Reedy, W1BEL" <gwyn@paccomm.com>  
X-Sender: gwyn@paccomm  
To: aprssig@tapir.org  
Subject: Domain Name  
Message-ID: <Pine.LNX.3.91.951226133852.8810C-100000@paccomm>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

re: strange reply to address.  
It was the operator (me). Note the correct (gwyn@paccomm.com) now displayed. Third time is a charm!

From jleonard@tbcnet.com Tue Dec 26 08:14:13 1995  
Received: from tbc2.tbcnet.com (root@tbc2.tbcnet.com [205.199.1.5]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id IAA17888 for <aprssig@tapir.org>; Tue, 26 Dec 1995 08:14:10 -0600 (CST)  
Received: (from jleonard@localhost) by tbc2.tbcnet.com (8.6.12/8.6.12) id JAA05159; Mon, 25 Dec 1995 09:06:11 -0600  
Date: Mon, 25 Dec 1995 09:06:11 -0600 (CST)  
From: Barry Leonard <jleonard@tbcnet.com>  
To: aprssig@tapir.org  
Subject: Re: [APRSSIG:5517] To all the Whiners . . .  
In-Reply-To: <951224190444\_23140463@emout06.mail.aol.com>  
Message-ID: <Pine.LNX.3.91.951225085744.5068A-100000@tbc2.tbcnet.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Those wondering about the purpose for, uses of, and history behind APRS are encouraged to read "README.1st" and "HISTORY.txt", along with several other documents that Bob, WB4APR, wrote, in the \README directory in the distribution program. These tell of many uses for the APRS system.

Happy Holidays

Barry Leonard/N9VJQ

From rwf@mindspring.com Tue Dec 26 09:14:47 1995  
Received: from borg.mindspring.com (root@borg.mindspring.com [204.180.128.14]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id JAA19675 for <aprssig@tapir.org>; Tue, 26 Dec 1995 09:14:45 -0600 (CST)  
Received: from rwf.mindspring.com [168.121.44.154] by borg.mindspring.com with SMTP id KAA07201 for <aprssig@tapir.org>; Tue, 26 Dec 1995 10:14:38 -0500  
Date: Tue, 26 Dec 1995 10:14:38 -0500  
Message-Id: <199512261514.KAA07201@borg.mindspring.com>  
X-Sender: rwf@mindspring.com  
X-Mailer: Windows Eudora Version 2.1.1  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: aprssig@tapir.org  
From: rwf <rwf@mindspring.com>  
Subject: Re: [APRSSIG:5522] question and info

If you do this, PLEASE devise a way to handle the routine test by the NWS. The rest of us (wherever we may be) may not be interested in knowing each time your local alert is tested. You'll probably need a somewhat accurate clock to disable your alert for a half hour or so around the time of the test by NWS. We're already getting enough false alarms as it is from other sources.  
Beeper idea is fine, though- as it doesn't bother anyone but your beeper list.

KD4EMI wrote (and I edited)

>There exists these small stamp sized "computers"  
SNIP  
>What modification to this basic idea would you suggest?

From northup@sw.stratus.com Tue Dec 26 10:34:47 1995  
Received: from transfer.stratus.com (transfer.stratus.com [134.111.1.10]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id KAA22454 for <aprssig@tapir.org>; Tue, 26 Dec 1995 10:34:45 -0600 (CST)  
Received: from lectroid.sw.stratus.com (lectroid.sw.stratus.com [134.111.10.1]) by transfer.stratus.com (8.7.1/8.6.11) with ESMTP id LAA22405 for <aprssig@tapir.org>; Tue, 26 Dec 1995 11:34:37 -0500 (EST)  
Received: from blackdog.sw.stratus.com (blackdog.sw.stratus.com [134.111.10.76]) by lectroid.sw.stratus.com (8.6.11/8.6.11) with ESMTP id LAA14087 for <aprssig@tapir.org>; Tue, 26 Dec 1995 11:34:36 -0500  
Received: (from northup@localhost) by blackdog.sw.stratus.com (8.6.9/8.6.9) id LAA04324; Tue, 26 Dec 1995 11:34:35 -0500  
From: Bill Northup <northup@sw.stratus.com>  
Message-Id: <199512261634.LAA04324@blackdog.sw.stratus.com>  
Subject: Re: [APRSSIG:5521] This isnt about missiles or flames.  
To: aprssig@tapir.org  
Date: Tue, 26 Dec 1995 11:34:35 -0500 (EST)  
Cc: aprssig@tapir.org  
In-Reply-To: <951225222629\_23741524@mail06.mail.aol.com> from "KD4EMI@aol.com" at

Dec 25, 95 09:37:33 pm  
X-Mailer: ELM [version 2.4 PL20]  
Content-Type: text

>  
> Here is an interesting thing I ran into . Think I should share it  
> with the sig.  
> I run my KPC on battery mode usually when Im mobile.  
> When the battery runs down, the xmit audio becomes unreadable  
> and I know its time to change the 9v battery.  
>  
> This has become a hassle as I usually am leaving the tracker on.  
> Wired up the KPC to the car battery..Left the 9v battery in there.  
>  
> Come to find out, when the 9V battery runs dead, even with external  
> power applied, the TNC gets moody and xmit audio is garbled.  
> Sure enough, take out the battery, (taped up the open 9V connector  
> so it wont touch anything inside) and boom, the tnc works again.  
> Therefore...if your having a problem, even when external power is applied,  
> check the 9v battery.  
> I duplicated this test with a dead 9v battery on my other kpc 3. Again, it  
> did not work properly, even when external power was applied.  
>  
> Now I operate without the battery and the lithium keeps the important data.  
> 73,  
> Mike KD4EMI@ AOL.COM  
>  
>

Another thing to watch out for - I have seen several KPC-3's with failing  
batteries lockup the PTT line, turning on the transmitter and no audio.

--

Bill Northup	INTERNET:	northup@sw.stratus.com
Stratus Computer Inc.	Amateur Radio:	N1QPR
55 Fairbanks Boulevard		QRP-NE #307
Marlboro, MA 01752		NorCal #1027

From dwetzel@acs.uswest.com Tue Dec 26 10:43:50 1995  
Received: from uswat.advtech.uswest.com (uswat.advtech.uswest.com [130.13.16.1])  
by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id KAA22489 for <aprssig@tapr.org>; Tue,  
26 Dec 1995 10:43:48 -0600 (CST)  
From: dwetzel@acs.uswest.com  
Received: from easthub ([151.117.26.86]) by uswat.advtech.uswest.com (8.7.3/8.7.3)  
with SMTP id JAA21805 for <aprssig@tapr.org>; Tue, 26 Dec 1995 09:43:44 -0700  
(MST)  
Received: by easthub.mnet.uswest.com (M-Net Hub.950111)  
Received: from acmspgw1.mnet.uswest.com by acs.uswest.com (5.x/SMI-SVR4)  
id AA15798; Tue, 26 Dec 1995 10:43:41 -0600  
Received: from ccMail by acmspgw1.mnet.uswest.com  
(IMA Internet Exchange 1.04b beta) id 0e01c6b0; Tue, 26 Dec 95 10:01:47 -0600

Mime-Version: 1.0  
Date: Tue, 26 Dec 1995 09:46:17 -0600  
Message-Id: <0e01c6b0@acmspgw1.mnet.uswest.com>  
Subject: Re: [APRSSIG:5457] Santa tracking Net  
To: aprssig@tapr.org  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit  
Content-Description: cc:Mail note part

Having had our GATE in Salt Lake up on Christmas eve, I was pleased to see that Santa WAS tracked and visible on APRS. My children (9 and 11) were mesmerized, and spent a good portion of the evening running back into the shack to see where Santa was going. They didn't catch on to the fact that his position was fixed until right before bedtime - but it was a wonderful addition to our Christmas here. Whoever uplinked Santa to all of us, THANK YOU!

Happy New Year to all sig readers!

Doug  
KC7CO

---

Subject: [APRSSIG:5457] Santa tracking Net  
From: aprssig@tapr.org at Internet-Mail  
Date: 12/21/95 12:57

Hello, all

I like Barrys' idea of a Santa tracking net on APRS. I WOULD be a good way to show off APRS capabilities to the public, etc and have some fun at the same time. Also a good way to introduce kids to Amateur Radio. Coordination thru the SIG seems the best way to go. Someone just need to start uplinking the object and others can grab it and steer Santa to their neighborhood, hi-hi. Bob(APR), is it possible to use(or is there imbedded in APRS an appropriate symbol that we may not be aware of?

To Keith and Mark(MAC/Win APRS): Are MACAPRS and/or WinAPRS using true .ico files to display symbols on the maps? And if so can a user tehn create his own .ico to assign to a symbol or add to the symbol list? This would allow users to have a little creativity and personality in their copy of the program and allow custom symbols to be generated for special events, etc.

Happy Holidays to all, and to all a good night.

73, Bob

NNNN

From cn2859@abaco.coastalnet.com Tue Dec 26 11:22:12 1995  
Received: from abaco.coastalnet.com (abaco.coastalnet.com [204.183.40.2]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id LAA23661 for <aprssig@tapr.org>; Tue, 26 Dec 1995 11:22:10 -0600 (CST)  
Received: from pm-wsh1-31.coastalnet.com by abaco.coastalnet.com (4.1/SMI-4.1) id AA26983; Tue, 26 Dec 95 12:21:07 EST



Date: Tue, 26 Dec 95 12:21:05 EST  
Message-Id: <9512261721.AA26983@abaco.coastalnet.com>  
X-Sender: cn2859@abaco.coastalnet.com  
X-Mailer: Windows Eudora Light Version 1.5.2  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: aprssig@tapr.org  
From: "David M. Gaytko / WD4KPD" <cn2859@abaco.coastalnet.com>  
Subject: 6m

hearing a lot of E's past few days, am running 120w using the aprs meteor scatter mode beaming SW. on all day into the late evening today and tomorrow.

would like to see many stations on the map! qrx on 50.620.....

73's.....david

From JeffS5@aol.com Tue Dec 26 11:54:32 1995  
Received: from emout06.mail.aol.com (emout06.mail.aol.com [198.81.10.43]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id LAA24754 for <aprssig@tapr.org>; Tue, 26 Dec 1995 11:54:29 -0600 (CST)  
From: JeffS5@aol.com  
Received: by emout06.mail.aol.com (8.6.12/8.6.12) id MAA09349 for aprssig@tapr.org; Tue, 26 Dec 1995 12:53:56 -0500  
Date: Tue, 26 Dec 1995 12:53:56 -0500  
Message-ID: <951226125356\_24027965@emout06.mail.aol.com>  
To: aprssig@tapr.org  
Subject: Listserve Suggestions

I wasn't aware of Digest either. Whatever stops all the complainers eh?

Thanks, Jeff - WA6EQU

From sparkfel@primenet.com Tue Dec 26 12:16:09 1995  
Received: from mailhost1.primenet.com (mailhost1.primenet.com [198.68.32.51]) by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id MAA25270 for <aprssig@tapr.org>; Tue, 26 Dec 1995 12:16:06 -0600 (CST)  
Received: from usr3.primenet.com (root@usr3.primenet.com [198.68.32.13]) by mailhost1.primenet.com (8.7.3/8.7.1) with ESMTP id LAA11819 for <aprssig@tapr.org>; Tue, 26 Dec 1995 11:16:02 -0700 (MST)  
Received: from ip084.phx.primenet.com (ip084.phx.primenet.com [198.68.46.84]) by usr3.primenet.com (8.7.3/8.7.3) with SMTP id LAA24145; Tue, 26 Dec 1995 11:16:01 -0700 (MST)  
Date: Tue, 26 Dec 1995 11:16:01 -0700 (MST)  
Message-Id: <199512261816.LAA24145@usr3.primenet.com>  
X-Sender: sparkfel@mailhost.primenet.com  
X-Mailer: Windows Eudora Version 1.4.4  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: aprssig@tapr.org, aprssig@tapr.org  
From: sparkfel@primenet.com (Mark Fellhauer)  
Subject: Re: [APRSSIG:5532] Re: Low Power XMIT Lockup

At 10:50 AM 12/26/95 -0600, Bill Northup wrote:

>>

>

>Another thing to watch out for - I have seen several KPC-3's with failing  
>batteries lockup the PTT line, turning on the transmitter and no audio.

>

This is not uncommon to a number of TNC's. Our Club's ancient PK-80 will  
lock in transmit mode if voltage (or amperage) drops below a certain  
threshold. This is very apparent when running the unit off the same power  
supply as the transceiver.

I've also seen incidents where power surges caused by lightning strikes have  
locked the PTT of TNC's, either through the TNC OR the radio.

73

Mark Fellhauer

KC7BXS

ThunderBird ARC Packet Coordinator

sparkfel@primenet.com

From BenWS5R@aol.com Tue Dec 26 17:16:18 1995

Received: from emout06.mail.aol.com (emout06.mail.aol.com [198.81.10.43]) by  
sys1.tapir.org (8.7.2/8.7.2) with SMTP id RAA04340 for <aprssig@tapir.org>; Tue, 26  
Dec 1995 17:16:16 -0600 (CST)

From: BenWS5R@aol.com

Received: by emout06.mail.aol.com (8.6.12/8.6.12) id SAA16267 for  
aprssig@tapir.org; Tue, 26 Dec 1995 18:15:43 -0500

Date: Tue, 26 Dec 1995 18:15:43 -0500

Message-ID: <951226181542\_99579545@emout06.mail.aol.com>

To: aprssig@tapir.org

Subject: Re: [APRSSIG:5520] Use of APRS at National Weather Service sites

John,

How about a quick synopsis of how you are doing it! We basically have the  
same responsibility here in the Texas Panhandle with 29 counties. I have been  
told we have a direct link into AFOS when we are ready. We will probably go  
with a TexNet system, but are still looking at other ideas. So basically how  
are you getting info into APRS is my big question.

Thanks in Advance and 73 Ben WS5R Potter County ARES EC DM95cf

From rwilkins@uhf.org Tue Dec 26 17:37:21 1995

Received: from shellx.best.com (root@shellx.best.com [206.86.0.11]) by  
sys1.tapir.org (8.7.2/8.7.2) with SMTP id RAA05353 for <aprssig@tapir.org>; Tue, 26  
Dec 1995 17:37:14 -0600 (CST)

Received: from ccnet3 (ccnet3.ccnet.com [192.215.96.11]) by shellx.best.com  
(950911.SGI.8.6.12.PATCH825/8.6.5) with SMTP id PAA23057 for <aprssig@tapir.org>;  
Tue, 26 Dec 1995 15:36:49 -0800

Date: Tue, 26 Dec 1995 15:34:56 -0800 (PST)

From: Bob Wilkins n6fri <rwilkins@uhf.org>  
X-Sender: rwilkins@ccnet3  
To: aprs sig <aprssig@tapr.org>  
Subject: 6 meters is open  
Message-ID: <Pine.SUN.3.91.951226153203.17774B-100000@ccnet3>  
X-URL: <http://www.ccnet.com/~rwilkins/>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Bob Wilkins	home	n6fri@uhf.org
Berkeley, California	work	bwilkins@cave.org
94712-2354	play	n6fri@n6eeg.#nocal.ca.usa.noam

SIX meters is now wide open!

----- Forwarded message -----  
Date: Tue, 26 Dec 95 12:21:14 EST  
From: David M. Gaytko / WD4KPD <cn2859@abaco.coastalnet.com>  
To: vhf@w6yx.stanford.edu  
Subject: 6m

hearing a lot of E's past few days, am running 120w using the aprs meteor scatter mode beaming SW. on all day into the late evening today and tomorrow.

would like to see many stations on the map! qrx on 50.620.....

73's.....david

From cn2859@abaco.coastalnet.com Tue Dec 26 19:47:26 1995  
Received: from abaco.coastalnet.com (abaco.coastalnet.com [204.183.40.2]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id TAA09341 for <aprssig@tapr.org>; Tue, 26 Dec 1995 19:47:24 -0600 (CST)  
Received: from pm-wsh1-22.coastalnet.com by abaco.coastalnet.com (4.1/SMI-4.1) id AA22840; Tue, 26 Dec 95 20:46:20 EST  
Date: Tue, 26 Dec 95 20:46:18 EST  
Message-Id: <9512270146.AA22840@abaco.coastalnet.com>  
X-Sender: cn2859@abaco.coastalnet.com  
X-Mailer: Windows Eudora Light Version 1.5.2  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: aprssig@tapr.org  
From: "David M. Gaytko / WD4KPD" <cn2859@abaco.coastalnet.com>  
Subject: 6m/paket

had very good connections this pm with wa9vrh in en50.

freq 50.61 fm afsk paket 1200b.

surley would like to see some other stations with the e's we been having.

will be qrx on 50.62 all day/eve next two days.

73's....david

From cn2859@abaco.coastalnet.com Tue Dec 26 21:24:51 1995  
Received: from abaco.coastalnet.com (abaco.coastalnet.com [204.183.40.2]) by  
sys1.tapr.org (8.7.2/8.7.2) with SMTP id VAA12879 for <aprssig@tapr.org>; Tue, 26  
Dec 1995 21:24:49 -0600 (CST)  
Received: from by abaco.coastalnet.com (4.1/SMI-4.1)  
id AB03131; Tue, 26 Dec 95 22:23:46 EST  
Date: Tue, 26 Dec 95 22:23:46 EST  
Message-Id: <9512270323.AB03131@abaco.coastalnet.com>  
X-Sender: cn2859@abaco.coastalnet.com  
X-Mailer: Windows Eudora Light Version 1.5.2  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: aprssig@tapr.org  
From: "David M. Gaytko / WD4KPD" <cn2859@abaco.coastalnet.com>  
Subject: 6m/paket

printing midwest stations on paket, pse connect!

50.61 or .62

de wd4kpd in fm15mm

From KD4EMI@aol.com Tue Dec 26 21:52:30 1995  
Received: from mail02.mail.aol.com (mail02.mail.aol.com [152.163.172.66]) by  
sys1.tapr.org (8.7.2/8.7.2) with SMTP id VAA13808 for <aprssig@tapr.org>; Tue, 26  
Dec 1995 21:52:28 -0600 (CST)  
From: KD4EMI@aol.com  
Received: by mail02.mail.aol.com (8.6.12/8.6.12) id WAA24746 for aprssig@tapr.org;  
Tue, 26 Dec 1995 22:51:55 -0500  
Date: Tue, 26 Dec 1995 22:51:55 -0500  
Message-ID: <951226225154\_99760191@mail02.mail.aol.com>  
To: aprssig@tapr.org  
Subject: Re: [APRSSIG:5537] Re: Use of APRS at National Weather Service sites

John,

How about a quick synopsis of how you are doing it! We basically have the same responsibility here in the Texas Panhandle with 29 counties. I have been told we have a direct link into AFOS when we are ready. We will probably go with a TexNet system, but are still looking at other ideas. So basically how are you getting info into APRS is my big question.

I think your talkin to me abt this.  
quick synopsis is in next msg.

From KD4EMI@aol.com Tue Dec 26 21:52:45 1995  
Received: from emout06.mail.aol.com (emout06.mail.aol.com [198.81.10.43]) by  
sys1.tapir.org (8.7.2/8.7.2) with SMTP id VAA13825 for <aprssig@tapir.org>; Tue, 26  
Dec 1995 21:52:42 -0600 (CST)  
From: KD4EMI@aol.com  
Received: by emout06.mail.aol.com (8.6.12/8.6.12) id WAA19912 for  
aprssig@tapir.org; Tue, 26 Dec 1995 22:52:10 -0500  
Date: Tue, 26 Dec 1995 22:52:10 -0500  
Message-ID: <951226225209\_99760397@emout06.mail.aol.com>  
To: aprssig@tapir.org  
Subject: Re: [APRSSIG:5539] 6m/paket

I am going to try some 6m packet.  
I am in EL96wf  
Let me know!

From KD4EMI@aol.com Tue Dec 26 21:53:24 1995  
Received: from mail04.mail.aol.com (mail04.mail.aol.com [152.163.172.53]) by  
sys1.tapir.org (8.7.2/8.7.2) with SMTP id VAA13845 for <aprssig@tapir.org>; Tue, 26  
Dec 1995 21:53:21 -0600 (CST)  
From: KD4EMI@aol.com  
Received: by mail04.mail.aol.com (8.6.12/8.6.12) id WAA13320; Tue, 26 Dec 1995  
22:52:14 -0500  
Date: Tue, 26 Dec 1995 22:52:14 -0500  
Message-ID: <951226225213\_99760438@mail04.mail.aol.com>  
To: aprssig@tapir.org  
cc: DMOBLEY@encore.com, 0004818186@mcimail.com  
Subject: How the Wx alert could work

I was really suprised at the volume of mail that I received about the  
aprs wx alert idea. In less than 24 hours I have rec'd 30 messages,  
private and on the sig about it.

The following is the BASIC idea of what I am thinking. Any comments  
are not only invited but appreciated. Lets see how we can make this  
a common goal and I would like to try to get this on line and operating  
in a way that everyone could use. Heck it might actually save someones  
life !

Here is the idea....

Postage stamp computers are delightfull little devices that have I/O ports  
and xmit data in various formats. They can also generate DTMF tones, as  
well as count cycles and a zillion other little a/d conversion applications.

Simply interface a programmed stamp to the AUDIO output of a wx  
alert radio. The beep goes off indicatong a wx alert. The stamp  
detects this. The stamp sends data to the tnc, reprogramming it with the  
already preprogrammed wx beacon. This beacon of course is going to  
be compatable with the aprs wx beacon format. The tnc sends out the wx  
alert data. Joe ham down the street, who is on aprs copies the wx alert  
and this sets off his alarm on his aprs program. (maybe a better way is  
to have Bob write a special code to just alert stations that nws wx alarm is  
active)

Anyway, if your within a certain radius of my (the wx station) station, your alarm goes off also.  
Further, the DTMF capability of the system allows for beeper paging as well. This system does not decode wx alert specifics, but just alerts aprs users that a wx alert (within a certain radius) has been activated. NWS also tests the wx alert system and this can be detected by the clock on the stamp and a false alarm would not be sent. The test alert is at the same time every day (I will confirm this though)  
The system wont say...TORNADO COMING or HURRICANE COMING.  
But will say...HEY GUYS..wake up, somethings going on that you better investigate. This is the basic idea. Now, lets make it better!  
Give me feedback, lets throw it around, and I will change and modify based on your comments.  
I hope Ive explained it well enough, if not, just let me know.

One idea I just though of while typing this follows...

There are devices that shut off computers when they detect the EMI (har) spikes of lightning. I could tailor a chip (<\$50.00) that says, LIGHTNING WARNING...INCOMING THUNDERSTORM (great for S FL). This would be broadcast over the aprs local net.  
There is an idea ! !

I digress...  
Mike  
KD4EMI@AOL.COM

From BenWS5R@aol.com Tue Dec 26 22:55:14 1995  
Received: from mail06.mail.aol.com (mail06.mail.aol.com [152.163.172.108]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id WAA15903 for <aprssig@tapir.org>; Tue, 26 Dec 1995 22:55:12 -0600 (CST)  
From: BenWS5R@aol.com  
Received: by mail06.mail.aol.com (8.6.12/8.6.12) id XAA26667 for aprssig@tapir.org; Tue, 26 Dec 1995 23:54:38 -0500  
Date: Tue, 26 Dec 1995 23:54:38 -0500  
Message-ID: <951226235438\_99801927@mail06.mail.aol.com>  
To: aprssig@tapir.org  
Subject: 6 is open

Have been putting out packets beaming NE on 50.620.

Have heard noting but did connect to NX9V-6 node in WIS from NW TEX.

Still listening on 6m.

QRZ 6 Ben WS5R DM95cf

From bruninga@nadm.navy.mil Tue Dec 26 23:19:17 1995  
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id XAA16795 for <aprssig@tapir.org>; Tue, 26 Dec 1995 23:19:14 -0600 (CST)  
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id

AAA05330; Wed, 27 Dec 1995 00:19:41 -0500  
Date: Wed, 27 Dec 1995 00:19:40 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
To: aprssig@tapr.org  
Subject: Re: [APRSSIG:5482] Re: APRTRAK and 73 article!  
In-Reply-To: <Pine.BSF.3.91.951221233844.1955B-100000@laraby.tiac.net>  
Message-ID: <Pine.SUN.3.91.951227001905.5319B-100000@greatlakes>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

OOPS, you sent it to ARRL HQ. It is 73 magazine that is doing the special edition! hi hi

WB4APR REPLY COMMENT:

From Paul\_Moller@csg.mot.com Wed Dec 27 08:43:53 1995  
Received: from motgate.mot.com (motgate.mot.com [129.188.136.100]) by sys1.tapr.org (8.7.2/8.7.2) with ESMTP id IAA05841 for <aprssig@tapr.org>; Wed, 27 Dec 1995 08:43:51 -0600 (CST)  
Received: from pobox.mot.com (pobox.mot.com [129.188.137.100]) by motgate.mot.com (8.7.1/8.6.10/MOT-3.8) with ESMTP id IAA02559 for <aprssig@tapr.org>; Wed, 27 Dec 1995 08:43:16 -0600 (CST)  
Received: from OAMPC10.csg.mot.com (OAMPC10.csg.mot.com [144.188.134.33]) by pobox.mot.com (8.7.1/8.6.10/MOT-3.8) with SMTP id IAA20525 for <aprssig@tapr.org>; Wed, 27 Dec 1995 08:43:14 -0600 (CST)  
Received: from PaulM\_PC.csg.mot.com (PaulM\_PC.csg.mot.com [144.188.36.8]) by OAMPC10.csg.mot.com (8.6.8.1/8.6.6) with SMTP id IAA08863 for <aprssig@tapr.org>; Wed, 27 Dec 1995 08:50:54 -0600  
Message-Id: <2.2b10.32.19951227144453.006f821c@144.188.134.33>  
X-Sender: mollpj@144.188.134.33  
X-Mailer: Windows Eudora Pro Version 2.2b10 (32)  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Wed, 27 Dec 1995 08:44:53 -0600  
To: aprssig@tapr.org  
From: Paul Moller <Paul\_Moller@csg.mot.com>  
Subject: WX alert

>The tnc sends out the wx  
>alert data. Joe ham down the street, who is on aprs copies the wx alert  
>and this sets off his alarm on his aprs program.

I may be incorrect in this statement, and please let me know if I am!!! BUT....

I believe it is illegal to allow a NOAA or other NON hams to generate a ham transmission. I know this was gone thru a few years ago with the NOAA broadcasts being connected to local repeaters. Note that you don't see it today with voice repeaters, and I think the reason is that the FCC has deemed this not legal. Sorry.

Paul, WD9ABE  
Maybe closer to GLNTC than anybody (5 miles)

From rtucker@crasher2.ttgcihn.com Wed Dec 27 11:57:02 1995  
Received: from insosf1.netins.net (ttgcihn@insosf1.netins.net [167.142.225.5]) by  
sys1.tapr.org (8.7.2/8.7.2) with SMTP id LAA11770 for <aprssig@tapr.org>; Wed, 27  
Dec 1995 11:56:52 -0600 (CST)  
Received: (from ttgcihn@localhost) by insosf1.netins.net id LAA21834 for  
aprssig@tapr.org; Wed, 27 Dec 1995 11:56:46 -0600  
Received: (from rtucker@localhost) by crasher2.ttgcihn.com (8.6.12/8.6.12) id  
LAA04926 for aprssig@tapr.org; Wed, 27 Dec 1995 11:54:21 -0600  
From: Ryan Tucker <rtucker@crasher2.ttgcihn.com>  
Message-Id: <199512271754.LAA04926@crasher2.ttgcihn.com>  
Subject: Re: [APRSSIG:5543] How the Wx alert could work  
To: aprssig@tapr.org  
Date: Wed, 27 Dec 1995 11:54:20 -0600 (CST)  
In-Reply-To: <951226225213\_99760438@mail04.mail.aol.com> from "KD4EMI@aol.com" at  
Dec 26, 95 10:03:39 pm  
X-Mailer: ELM [version 2.4 PL24]  
MIME-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit

Thus spake KD4EMI@aol.com, splattered hither:  
> activated. NWS also tests the wx alert system and this can be detected by  
> the clock on the stamp and a false alarm would not be sent. The test

Sure that's a good idea? It would make a good test of the system. Also,  
I don't think they test WX alert every day here, but I may be wrong. I think  
the NWS postpones/cancels tests if weather conditions are threatening, which  
might mean that it would filter out a truly valid alarm.

A false alarm is better than no alarm at all in my opinion :-)

--  
Ryan Tucker  
rtucker@ttgcihn.com  
http://www.ttgcihn.com

ttgcihn.com owner  
ann-arbor.mi.us.undernet.org irc admin  
netins.net user development group

From northup@sw.stratus.com Wed Dec 27 15:45:22 1995  
Received: from transfer.stratus.com (transfer.stratus.com [134.111.1.10]) by  
sys1.tapr.org (8.7.2/8.7.2) with ESMTTP id PAA18169 for <aprssig@tapr.org>; Wed, 27  
Dec 1995 15:45:19 -0600 (CST)  
Received: from lectroid.sw.stratus.com (lectroid.sw.stratus.com [134.111.10.1]) by  
transfer.stratus.com (8.7.1/8.6.11) with ESMTTP id QAA26419 for <aprssig@tapr.org>;  
Wed, 27 Dec 1995 16:45:15 -0500 (EST)  
Received: from blackdog.sw.stratus.com (blackdog.sw.stratus.com [134.111.10.76])  
by lectroid.sw.stratus.com (8.6.11/8.6.11) with ESMTTP id QAA01355 for  
<aprssig@tapr.org>; Wed, 27 Dec 1995 16:45:14 -0500  
Received: (from northup@localhost) by blackdog.sw.stratus.com (8.6.9/8.6.9) id  
QAA04666 for aprssig@tapr.org; Wed, 27 Dec 1995 16:28:56 -0500  
From: Bill Northup <northup@sw.stratus.com>  
Message-Id: <199512272128.QAA04666@blackdog.sw.stratus.com>



Subject: Another KPC-3 problem  
To: aprssig@tapr.org (Mail-list APRS)  
Date: Wed, 27 Dec 1995 16:28:56 -0500 (EST)  
X-Mailer: ELM [version 2.4 PL20]  
Content-Type: text

Last night I found another problem with the KPC-3 and was wondering if anyone else has seen it. I have been trying to call Kantronics but they are not answering their phone.

I am using the TCN is GPS mode tied to a garman45 gps.

The problem: The TNC started sending the same LT line continuously. In doesn't drop TX - it just sends the same line over and over. I saw what had happened and turned it off prior to reaching the watchdog time. I also know the signal was good because when I turned off the TNC I could hear other stations repeating it.

Has anyone else seen this ?

Bill

--

Bill Northup	INTERNET:	northup@sw.stratus.com
Stratus Computer Inc.	Amateur Radio:	N1QPR
55 Fairbanks Boulevard		QRP-NE #307
Marlboro, MA 01752		NorCal #1027

From rwilkins@uhf.org Wed Dec 27 16:24:52 1995  
Received: from shellx.best.com (root@shellx.best.com [206.86.0.11]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id QAA19451 for <aprssig@tapr.org>; Wed, 27 Dec 1995 16:24:49 -0600 (CST)  
Received: from ccnet3 (ccnet3.ccnet.com [192.215.96.11]) by shellx.best.com (950911.SGI.8.6.12.PATCH825/8.6.5) with SMTP id OAA20006 for <aprssig@tapr.org>; Wed, 27 Dec 1995 14:24:18 -0800  
Date: Wed, 27 Dec 1995 14:22:26 -0800 (PST)  
From: Bob Wilkins n6fri <rwilkins@uhf.org>  
X-Sender: rwilkins@ccnet3  
To: aprssig@tapr.org  
Subject: Re: [APRSSIG:5546] WX alert  
In-Reply-To: <2.2b10.32.19951227144453.006f821c@144.188.134.33>  
Message-ID: <Pine.SUN.3.91.951227135155.21884A-100000@ccnet3>  
X-URL: <http://www.ccnet.com/~rwilkins/>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 27 Dec 1995, Paul Moller wrote:

> I believe it is illegal to allow a NOAA or other NON hams to generate a ham  
> transmission. I know this was gone thru a few years ago with the NOAA

> broadcasts being connected to local repeaters. Note that you don't see it  
> today with voice repeaters, and I think the reason is that the FCC has  
> deemed this not legal. Sorry.

This maybe a gray area. The previous discussion of rules related to voice  
repeaters directly repeating an other radio service, the weather broadcasts.

The amateur digital station should be able to parse the data or tone  
alerts sent out by the noaa weather service and under his firmware or  
software control send it out in a new form to amateur stations.

Amateur digital stations should be cautioned against broadcasting this  
information to the general public.

Many amateur digital and voice stations under automatic control have alarm  
functions that are transmitted when a sensor is activated.

I see way too many BLN s sent out that are not of interest to amateurs on  
APRS. One Way Bulletins must be of interest to the Amateur Service. Any  
thing else is broadcasting. I am sure to see " BLN1 Way to Go 49ers!  
SuperBowl Winners! ". Broadcasting the results of football games is not  
legal as a one way transmission.

Bob n6fri

Bob Wilkins	home	n6fri@uhf.org
Berkeley, California	work	bwilkins@cave.org
94712-2354	play	n6fri@n6eeg.#nocal.ca.usa.noam

From snabkey@wingsbbs.com Wed Dec 27 16:27:18 1995  
Received: from wingsbbs.com ([205.243.16.10]) by sys1.tapr.org (8.7.2/8.7.2) with  
SMTP id QAA19499 for <aprssig@tapr.org>; Wed, 27 Dec 1995 16:27:13 -0600 (CST)  
Message-Id: <199512272227.QAA19499@sys1.tapr.org>  
Received: from 192.168.0.1\_75! by wingsbbs.com  
with SMTP (IPAD 0.9.3) id 2736600 ; Wed, 27 Dec 95 17:31:46 UTC  
Comments: Authenticated sender is <snabkey@wingsbbs.com>  
From: "Sam Nabkey" <snabkey@wingsbbs.com>  
To: aprssig@tapr.org  
Date: Wed, 27 Dec 1995 17:27:03 -0500  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Subject: Re: [APRSSIG:5546] WX alert  
Priority: normal  
X-mailer: Pegasus Mail for Windows (v2.23)

On 27 Dec 95 at 8:59, Paul Moller wrote:

Stuff deleted:

>

> I may be incorrect in this statement, and please let me know if I am!!! BUT....  
>  
> I believe it is illegal to allow a NOAA or other NON hams to generate a ham  
> transmission. I know this was gone thru a few years ago with the NOAA  
> broadcasts being connected to local repeaters. Note that you don't see it  
> today with voice repeaters, and I think the reason is that the FCC has  
> deemed this not legal. Sorry.  
>  
> Paul, WD9ABE  
> Maybe closer to GLNTC than anybody (5 miles)  
>  
>

Gee, I HOPE not or the NOAA Weather monitor that triggered our  
Repeaater and put the thing in the "Blue Sky Weather Mode" probably  
was running "unproper" for about 15 years.

Seems the FCC Monitoring Station 30 Miles from our System would have  
sent us a greeting message telling us to stop.

Hmmmm.

-----  
Samuel T. Nabkey - WJ8T

{snabkey@wingsbbs.com}

From n2czf@gate.net Wed Dec 27 17:02:48 1995  
Received: from osceola.gate.net (osceola.gate.net [199.227.0.18]) by sys1.tapr.org  
(8.7.2/8.7.2) with SMTP id RAA20366 for <aprssig@tapr.org>; Wed, 27 Dec 1995  
17:02:44 -0600 (CST)  
From: n2czf@gate.net  
Received: from 199.227.125.176 (wpbfl2-48.gate.net [199.227.125.176]) by  
osceola.gate.net (8.6.12/8.6.9) with SMTP id RAA26374 for <aprssig@tapr.org>; Wed,  
27 Dec 1995 17:57:50 -0500  
Date: Wed, 27 Dec 1995 17:57:50 -0500  
Message-Id: <199512272257.RAA26374@osceola.gate.net>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
Subject: 6M APRS Activiity...  
To: aprssig@tapr.org  
X-Mailer: SPRY Mail Version: 04.00.06.17

I have a 150W commercial Uniden radio here that I have programed up (36ch) with  
50.62. I have the programer for the night (Wed) and it is diffiicult for me to  
get hold of it very often. My problem with 50.62 is that it is so low in the  
band (SSB portion) that this radio (and many others) will not allow the PLL to  
lock up so far away from the regular FM portion.

I will be able to go that low if and only if I can find someone with the  
modification procedures to make this radio SUPER WIDE BAND. I know that they are

out there but no one I know in the 2-Way industry has the file. It involves changing some diodes capacitors, and rework of some air coils but I do not have the specific part numbers.

If anyone else is having this problem with narrow cut LB radios and no one else objects can we move up higher in the band like some of the oddball simplex frequencies in the 52 or 53 MHz band ? 53.00 53.52 are two off the wall simplex frequencies listed in the ARRL Diirectory.

73's De Rich N2CZF  
n2czf@gate.net  
Jupiter Farms Florida

From mackay@lr.net Wed Dec 27 18:45:26 1995  
Received: from mail1 (mail1.lr.net [205.219.188.15]) by sys1.taprr.org (8.7.2/8.7.2) with SMTP id SAA24027 for <aprssig@taprr.org>; Wed, 27 Dec 1995 18:45:24 -0600 (CST)  
Received: from LOCALNAME (port3.lr.net) by mail1 (5.x/SMI-SVR4) id AA12742; Wed, 27 Dec 1995 19:44:28 -0500  
Message-Id: <9512280044.AA12742@mail1>  
X-Sender: mackay@mail1.lr.net  
X-Mailer: Windows Eudora Light Version 1.5.2  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Wed, 27 Dec 1995 19:37:51 -0500  
To: aprssig@taprr.org  
From: Tom & Linda MacKay <mackay@lr.net>  
Subject: APRS Gateways

We will be taking a trip from New Hampshire to Florida in February, and I would like to know if there is a published list of gateway calls. I know the one in NH is NR1N-2 but are there others in the rest of the states.

Thank you Tom N1HQF

From largriff@onramp.net Wed Dec 27 19:34:10 1995  
Received: from mailhost.onramp.net (mailhost.onramp.net [199.1.11.3]) by sys1.taprr.org (8.7.2/8.7.2) with SMTP id TAA26208 for <aprssig@taprr.org>; Wed, 27 Dec 1995 19:34:07 -0600 (CST)  
Received: from lub06.onramp.net (lub06.onramp.net [199.1.172.134]) by mailhost.onramp.net (8.6.12/8.6.5) with SMTP id TAA27184 for <aprssig@taprr.org>; Wed, 27 Dec 1995 19:34:02 -0600  
Received: by lub06.onramp.net with Microsoft Mail id <01BAD492.43BA3360@lub06.onramp.net>; Wed, 27 Dec 1995 19:33:57 -0600  
Message-ID: <01BAD492.43BA3360@lub06.onramp.net>  
From: Larry Griffin <largriff@onramp.net>  
To: "'aprssig@taprr.org'" <aprssig@taprr.org>  
Subject: Re: Another KPC-3 Problem  
Date: Wed, 27 Dec 1995 19:31:50 -0600  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: quoted-printable

I saw the same thing once right after I first got my KPC-3 and was =  
trying to get it setup. It kept repeating the same line continuously. =  
Even after turning it off and back on, it kept repeating! I had to open =  
it and do a cold reset. I never knew exactly why it happened; it was =  
while I was in the middle of setting parameters, but it hasn't happened =  
since. Did make me kind of nervous for awhile though.

Larry Griffin <largriff@onramp.net>  
-----

On Dec 27 Bill wrote:

Last night I found another problem with the KPC-3 and was wondering  
if anyone else has seen it. I have been trying to call Kantronics but  
they are not answering their phone.

I am using the TCN is GPS mode tied to a garman45 gps.

The problem: The TNC started sending the same LT line continuously.  
In doesn't drop TX - it just sends the same line over and over. I saw  
what had happened and turned it off prior to reaching the watchdog  
time. I also know the signal was good because when I turned off the=20  
TNC I could hear other stations repeating it.

Has anyone else seen this ?

Bill

From kheyboer@pinegov.co.pinellas.fl.us Wed Dec 27 19:45:16 1995  
Received: from pinegov (pinegov.co.pinellas.fl.us [136.174.202.1]) by  
sys1.tapir.org (8.7.2/8.7.2) with SMTP id TAA26539 for <aprssig@tapir.org>; Wed, 27  
Dec 1995 19:45:12 -0600 (CST)  
Received: by pinegov (5.0/SMI-SVR4)  
id AA11095; Thu, 28 Dec 1995 01:42:35 +0000  
Errors-To: root@pinegov.co.pinellas.fl.us  
Date: Thu, 28 Dec 1995 01:42:34 +0000 (EST)  
From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>  
To: aprssig@tapir.org  
Subject: Re: [APRSSIG:5546] WX alert  
In-Reply-To: <2.2b10.32.19951227144453.006f821c@144.188.134.33>  
Message-Id: <Pine.SUN.3.91.951228013814.11081A-1000000@pinegov>  
Mime-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 27 Dec 1995, Paul Moller wrote:

> >The tnc sends out the wx  
> >alert data. Joe ham down the street, who is on aprs copies the wx alert  
> >and this sets off his alarm on his aprs program.

>  
> I may be incorrect in this statement, and please let me know if I am!!! BUT....  
>  
> I believe it is illegal to allow a NOAA or other NON hams to generate a ham  
> transmission. I know this was gone thru a few years ago with the NOAA  
> broadcasts being connected to local repeaters. Note that you don't see it  
> today with voice repeaters, and I think the reason is that the FCC has  
> deemed this not legal. Sorry.  
>  
> Paul, WD9ABE  
> Maybe closer to GLNTC than anybody (5 miles)  
>  
>

Not correct as far as I know....there are two and only two products from  
broadcast stations that can be retransmitted on Ham freqs by qualified  
control operators.....retransmission of Shuttle audio and retransmission  
of NOAA Weather ...provided that the retransmission is not  
continuous...ie, you cannot hook the audio of NOAA into a ham VHF  
transmitter and let it run 24 hours a day that way...but you can  
retransmit warnings...we have one repeater hear that has a NOAA WX Alert  
radio patched into the repeater, when the tone sounds, the audio locks on  
for two minutes, allowing for the bulletin, then shuts off....

BTW..this is also the same regulation that allows for retransmission of  
AFOS text bulletins on packet in real time, which we have also been doing  
here for some time from the local EM office.

73 de KD4UYR  
Skywarn Coordinator  
Pinellas County, FLorida and  
Seminole Florida APRS GATEway

From kheyboer@pinegov.co.pinellas.fl.us Wed Dec 27 19:50:25 1995  
Received: from pinegov (pinegov.co.pinellas.fl.us [136.174.202.1]) by  
sys1.tapir.org (8.7.2/8.7.2) with SMTP id TAA26904 for <aprssig@tapir.org>; Wed, 27  
Dec 1995 19:50:21 -0600 (CST)  
Received: by pinegov (5.0/SMI-SVR4)  
id AA11116; Thu, 28 Dec 1995 01:48:18 +0000  
Errors-To: root@pinegov.co.pinellas.fl.us  
Date: Thu, 28 Dec 1995 01:48:17 +0000 (EST)  
From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>  
To: aprssig@tapir.org  
Subject: Re: [APRSSIG:5548] Another KPC-3 problem  
In-Reply-To: <199512272128.QAA04666@blackdog.sw.stratus.com>  
Message-Id: <Pine.SUN.3.91.951228014509.11081B-100000@pinegov>  
Mime-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 27 Dec 1995, Bill Northup wrote:

>

> Last night I found another problem with the KPC-3 and was wondering  
> if anyone else has seen it. I have been trying to call Kantronics but  
> they are not answering their phone.

> I am using the TCN in GPS mode tied to a Garmin 45 GPS.

> The problem: The TNC started sending the same LT line continuously.  
> It doesn't drop TX - it just sends the same line over and over. I saw  
> what had happened and turned it off prior to reaching the watchdog  
> time. I also know the signal was good because when I turned off the  
> TNC I could hear other stations repeating it.

> Has anyone else seen this ?

> Bill

> --

> Bill Northup	INTERNET:	northup@sw.stratus.com
> Stratus Computer Inc.	Amateur Radio:	N1QPR
> 55 Fairbanks Boulevard		QRP-NE #307
> Marlboro, MA 01752		NorCal #1027

Bill...I would recommend you check your BLT setting on the slotted  
beacons for the GPS data...you may have accidentally set them at every  
second...be careful using the term every such as:

BLT 1 EVERY 00:00:01 means transmit every second

That's the only thing I can think of that would cause such a problem....

Good Luck,

de Kevin KD4UYR

From KD4EMI@aol.com Wed Dec 27 20:27:42 1995  
Received: from mail06.mail.aol.com (mail06.mail.aol.com [152.163.172.108]) by  
sys1.tapir.org (8.7.2/8.7.2) with SMTP id UAA27801 for <aprssig@tapir.org>; Wed, 27  
Dec 1995 20:27:36 -0600 (CST)  
From: KD4EMI@aol.com  
Received: by mail06.mail.aol.com (8.6.12/8.6.12) id VAA13658 for aprssig@tapir.org;  
Wed, 27 Dec 1995 21:27:03 -0500  
Date: Wed, 27 Dec 1995 21:27:03 -0500  
Message-ID: <951227212701\_100430610@mail06.mail.aol.com>  
To: aprssig@tapir.org  
Subject: Oh OH....

Well I asked for comments and I got 'em.

Several wrote the following comments and I have commented on  
the comments below the comments (are you still with me?)

(I am sorry for the size of the message but these comments are important to summarize:

Comment #1 sent to me stated:

-----  
<SNIP>

I may be incorrect in this statement, and please let me know if I am!!!  
BUT....

I believe it is illegal to allow a NOAA or other NON hams to generate a ham transmission. I know this was gone thru a few years ago with the NOAA broadcasts being connected to local repeaters. Note that you don't see it today with voice repeaters, and I think the reason is that the FCC has deemed this not legal. Sorry.

(gee we do this here ! we get wx alerts on the repeater!)

-----  
and another stated:

Hi Mike this has been done in the past with several articles in 73 and QST (many years ago) explaining the hard circuit, never as a PIC as you suggest. I think the idea is WONDERFUL but there is one problem...one that none of us can answer and the reason that the discrete circuits never became popular, the LAW! Seems that many complained that this was control of an amateur transmitter by

non licensed amateurs, well I am sorry to say that I tend to agree with the past comments many years ago. The idea is great but those "-----" did have a point, unless the FCC has made a waver, or will, think the PIC idea will be violaiting the law as was pointed out years ago.

Now if a few stations did it and no one complained I think you could "get away" with it, but if it becomes popular like it could very well become (it is a great idea) I would worry. If you draw attention to yourself (like getting a lot of

APRS users doing the same thing) they will (FCC) wake up and take notice and you may not want the wrath of the FCC coming down on you for such a noble idea.

Call the ARRL Legal Department, or maybe even the FCC and ask for their opinion before you go too far and get disappointed. You may be lucky and they laws may have been changed since to allow this type of operation.

-----  
And yet another stated:

This maybe a gray area. The previous discussion of rules related to voice



repeaters directly repeating an other radio service, the weather broadcasts.

The amateur digital station should be able to parse the data or tone alerts sent out by the noaa weather service and under his firmware or software control send it out in a new form to amateur stations.

Amateur digital stations should be cautioned against broadcasting this information to the general public.

Many amateur digital and voice stations under automatic control have alarm functions that are transmitted when a sensor is activated.

( I like this guy ! )

-----

Now my turn:

I am concerned about the issues raised in these comments.  
As every good amateur has a FCC rule book, I will refer to  
my latest edition ARRL publication "THE FCC RULE BOOK"  
and I quote:

Chapter 7-2

(again this is verbatim)

" You may, however, retransmit NOAA wx broadcasts, propagation bulletins originated by US goverment stations, and space shuttle communications (with NASA OKAY) as an incident to normal amatuer activity."

Chapter 7-5

QUTOED

"Radio amateurs may only retransmit signals originating in the Amatuer radio service, EXCEPT IN CASES OF EMERGENCY OR COMMUNICATIONS on NASA" <SNIP>  
<SNIP>

and NOAA wx and govermental propigation bulletins.  
Such transmissions must be limited to an occasional basis"

I wont be ( LOOK AT THE KEYWORD) RETRANSMITTING  
NOAA. My sensor will activated at a NOAA alert and XMIT  
a beacon.

Further.

The transmissions are occasional. Im not constantly retransmitting  
the NOAA wx station like a repeater ! It is occasionally xmitting a  
packet beacon, activated by a sensor.

Frankly I was pleased at the pleasent and conciencious way that  
those hams alerted us to a potential problem and how this didnt  
get into a flame war. Well done gentleman...

Id like to thank those who expressed their concerns.

NOW, LETS GET BACK TO THE BENCH AND BACK TO WORK !!

Please continue to ponder the comments on the SIG  
and lets keep it the momentum moving forward....

73 Mike KD4EMI@AOL.COM

From mickey@intellinet.com Wed Dec 27 20:43:19 1995  
Received: from intellinet.com (root@sibyl.intellinet.com [199.2.240.10]) by  
sys1.tappr.org (8.7.2/8.7.2) with SMTP id UAA28370 for <aprssig@tappr.org>; Wed, 27  
Dec 1995 20:43:16 -0600 (CST)  
Received: from IntelliNet.intellinet.com (md-012.bat.intellinet.com  
[204.214.231.78]) by intellinet.com (8.6.12/8.6.9) with SMTP id UAA04596 for  
<aprssig@tappr.org>; Wed, 27 Dec 1995 20:46:17 -0600  
Message-ID: <30E2038F.74D8@intellinet.com>  
Date: Wed, 27 Dec 1995 20:40:15 -0600  
From: Mickey Espsoito <mickey@intellinet.com>  
Organization: Batesville Kiwanis Club  
X-Mailer: Mozilla 2.0b3 (Win95; I)  
MIME-Version: 1.0  
To: aprssig@tappr.org  
Subject: Re: [APRSSIG:5518] Re: To all the Whiners . . .  
References: <199512250307.VAA10925@sys1.tappr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Greg Jones wrote:

>  
> >  
> > For those who complain that they're paying for each E-Mail message they  
> > receive, I suggest you look around at changing servers. There are PLENTY who  
> > charge flat rate for their services. AOL is one if you prefer the giant  
> > servers, and Earthlink is another as a WWW provider. Those that can't get  
> > local phone access and are paying LD charges, buy a faster modem!  
> >  
>  
> If you are paying by the message -- you can put any TAPR SIG mailing group  
> into what is called digest mode.  
>  
> Send e-mail to listserv@tappr.org  
>  
> in the body of the message say  
>  
> set aprssig digest  
>  
> This will cause one message a day to be sent containing all the messages  
> from the sig that day.  
>  
> Maybe this will help.  
>  
> If you are not familiar with how Internet lists work, what has been  
> happening on APRS SIG with diverse topics happening at the same time -- this  
> is pretty normal. Just press delete if you read something you don't like  
> and keep an eye on the subject line.  
>  
> Merry Xmas and Happy Holidays!  
>  
> GregHere in Arkansas, and I assume elsewhere, the Bells are offering calling

services which enable you to dial any one number in your calling "latta" for a fee of \$15 a month; 1 time or 1000 times or hours. Now, with internet service getting competitive, we have rates like \$19.95 plus the \$15 outside our community but fortunately reaching 100 miles in Little Rock to an internet provider-total, unlimited time and phone call \$34.95. Sure beats AOL and their so called 5 free hours, 9.95 basic charge, @5 hr for their 800 number (going up too!)- 5 hrs. to them, only 5=\$34.95..forget it folks, check out what the Baby Bells are offering! mickey@intellinet.com ( our town of 9k has local access!)

From W2HOB@aol.com Wed Dec 27 21:40:41 1995  
Received: from emout04.mail.aol.com (emout04.mail.aol.com [198.81.10.12]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id VAA00663 for <aprssig@tapir.org>; Wed, 27 Dec 1995 21:40:35 -0600 (CST)  
From: W2HOB@aol.com  
Received: by emout04.mail.aol.com (8.6.12/8.6.12) id WAA15080 for aprssig@tapir.org; Wed, 27 Dec 1995 22:39:56 -0500  
Date: Wed, 27 Dec 1995 22:39:56 -0500  
Message-ID: <951227223955\_25299372@emout04.mail.aol.com>  
To: aprssig@tapir.org  
Subject: Re: [APRSSIG:5552] APRS Gateways

To the station looking for GATEWAYS for a NH to ?? trip:

Mark, W02J, runs a multimode station which includes U-II, MAC, & a GATE on 145.79-MHz from Readington NJ (Hunterdon Co) which is just a tad bit NE of Flemington NJ. I think his GATE is on the "standard 10.151" and does a mighty fine job of letting the rest of us down here in South Jersey see what's happening in the rest of the USA. I think its IDENT is W02J-1. His location is on the maps!

73 de Boyd (w2hob@aol.com)

From ndavis@spider.lloyd.com Wed Dec 27 21:42:26 1995  
Received: from spider.lloyd.com (root@spider.lloyd.com [158.222.1.5]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id VAA00709 for <aprssig@tapir.org>; Wed, 27 Dec 1995 21:42:23 -0600 (CST)  
Received: from dial-1-14.lloyd.com by spider.lloyd.com with smtp (Smail3.1.29.1 #5) id m0tV9EL-000TrnC; Wed, 27 Dec 95 19:42 PST  
Message-Id: <m0tV9EL-000TrnC@spider.lloyd.com>  
X-Sender: ndavis@spider.lloyd.com  
X-Mailer: Windows Eudora Version 1.4.4  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Wed, 27 Dec 1995 19:36:20 +0000  
To: aprssig@tapir.org  
From: ndavis@spider.lloyd.com (Norman Davis)  
Subject: Re: [APRSSIG:5541] Re: Use of APRS at National Weather Service sites

>. I have been  
>told we have a direct link into AFOS when we are ready.

If you have web access, you have AFOS access.

Try <http://www.nhc.noaa.gov>

Norman Davis WB6SHI

Email [ndavis@spider.lloyd.com](mailto:ndavis@spider.lloyd.com)  
72057,1722@compuserve.com  
I love Hot cars, Planes and  
Trains.  
Basicly anything that moves.

From baded@nacs.net Wed Dec 27 22:11:33 1995  
Received: from nacs.net (seka.nacs.net [205.133.179.30]) by sys1.tapir.org  
(8.7.2/8.7.2) with SMTP id WAA01548 for <aprssig@tapir.org>; Wed, 27 Dec 1995  
22:11:30 -0600 (CST)  
Received: from dyn-5.nacs.net (dyn-5.nacs.net [205.133.179.205]) by nacs.net  
(8.6.12/8.6.12) with SMTP id XAA10969 for <aprssig@tapir.org>; Wed, 27 Dec 1995  
23:14:13 -0500  
Message-Id: <199512280414.XAA10969@nacs.net>  
X-Sender: baded@nacs.net  
X-Mailer: Windows Eudora Version 1.4.4  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Wed, 27 Dec 1995 23:10:49 -0500  
To: [aprssig@tapir.org](mailto:aprssig@tapir.org)  
From: baded@nacs.net (Doug Bade)  
Subject: Re: [APRSSID:5548] Another KPC-3 problem

>  
> Last night I found another problem with the KPC-3 and was wondering  
> if anyone else has seen it. I have been trying to call Kantronics >  
Bill

>  
>--  
>  
> Bill Northup                   INTERNET:       northup@sw.stratus.com  
> Stratus Computer Inc.       Amateur Radio:   N1QPR  
> 55 Fairbanks Boulevard       QRP-NE #307  
> Marlboro, MA 01752           NorCal #1027  
>  
>

>Bill, we have several units in the Cleveland Ohio area doing this same  
thing on a regular if not daily basis. seems to be triggered at 00:00 z if my  
memory serves me correctly. Three of us here have Garmin 45's tied to  
KPC-3 units as you do. The timing on intervals did not seem to make a  
difference. I will get back into it if someone else has any Idea's but we  
gave up... We have our beacons staggered at 2-3 min intervals for mobile  
tracking, and one will do long tx as you say, as soon as it is done, another  
will start and repeat the process as fast as the digipeater clears.

We set for sometimes one interval, sometimes 2 intervals with  
different digi paths. At present, we have the units set up as APRS inits.

so that we can plug and unplug the computer at will, without upsetting normal veh broadcast mode. In this mode APRS doesn't tx, but does rx, and places position on map from digi echo. We do have all of our beacon intervals ref 00:00z may have something to do with it but does seem to be a kpc-3 glitch. GPS talks to TNC all the time without recabling. We gave up solving prob over hear but maybe someone can help. I can provide alot more absolute setting data, but most is out of KPC-3 book or APRS docs.

Lets see who else responds.... 73... Doug KB8GVQ

baded@nacs.net

packet kb8gvq@kb8gvq.#neoh.oh.usa.na

From amirault@laraby.tiac.net Wed Dec 27 23:02:14 1995  
Received: from laraby.tiac.net (root@laraby.tiac.net [199.0.65.80]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id XAA03129 for <aprssig@tapir.org>; Wed, 27 Dec 1995 23:02:12 -0600 (CST)  
Received: (from amirault@localhost) by laraby.tiac.net (8.6.9/8.6.6.Beta9) id AAA24200; Thu, 28 Dec 1995 00:02:11 -0500  
Date: Thu, 28 Dec 1995 00:02:11 -0500 (EST)  
From: Richard Amirault <amirault@laraby.tiac.net>  
To: aprssig@tapir.org  
Subject: Re: [APRSSIG:5558] Re: APRS Gateways  
In-Reply-To: <951227223955\_25299372@emout04.mail.aol.com>  
Message-ID: <Pine.BSF.3.91.951227235608.23736D-100000@laraby.tiac.net>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 27 Dec 1995 W2HOB@aol.com wrote:

>  
> To the station looking for GATEWAYS for a NH to ?? trip:  
>  
> Mark, W02J, runs a multimode station which includes U-II, MAC, &  
> a GATE on 145.79-MHz from Readington NJ (Hunterdon Co) which  
> is just a tad bit NE of Flemington NJ. I think his GATE is on the  
> "standard 10.151" and does a mighty fine job of letting the rest of  
> us down here in South Jersey see what's happening in the rest of  
> the USA. I think its IDENT is W02J-1. His location is on the maps!  
>

-----  
I saw the original message, but did not reply....but...

I don't understand! Why would you want to know where the GATE stns are?  
If you are near one (and something comes thru) you'll hear it! A GATE, by definition, has an alias of GATE, so you don't need to know its call.

Richard Amirault                      N1JDU                      Boston, Massachusetts USA  
amirault@tiac.net                      "Go Fly A Kite"

From brad@ecst.csuchico.edu Thu Dec 28 02:49:16 1995  
Received: from abyss.ecst.csuchico.edu (brad@abyss.ecst.csuchico.edu [132.241.1.34]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id CAA15099 for <aprssig@tapir.org>; Thu, 28 Dec 1995 02:49:13 -0600 (CST)

Received: (from brad@localhost) by abyss.ecst.csuchico.edu (8.6.12/8.6.10) id AAA03994; Thu, 28 Dec 1995 00:49:08 -0800  
Date: Thu, 28 Dec 1995 00:49:08 -0800 (PST)  
From: Bradley Lee Ambers <brad@ecst.csuchico.edu>  
To: aprssig@tapr.org  
Subject: Re: [APRSSIG:5517] To all the Whiners . . .  
In-Reply-To: <951224190444\_23140463@emout06.mail.aol.com>  
Message-ID: <Pine.HPP.3.91.951228004600.3949A-100000@abyss.ecst.csuchico.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 24 Dec 1995 JeffS5@aol.com wrote:

> I have sat here for 2 weeks listening to all the complaining about who thinks  
> what's important to this SIG (in their opinion). This SIG was founded on  
> APRS. APRS was founded BECAUSE of GPS. GPS was founded in part to get missiles  
> home and on-time. Is this related to APRS? Yes! There is NO ONE on this SIG  
> that's not interested or facinated by the concept of GPS, how it works, and  
> why. GPS is the basic building block of APRS and this SIG. There are  
> newcomers to GPS, APRS, & this SIG constantly signing-on that really don't  
> have a clue how things work, or why. IT'S THESE PEOPLE WHO ARE GONA MAKE APRS  
> FLY IN THE AMATEUR WORLD FOLKS! If Gerry wants to give the long version of  
> how GPS works on missiles, let him! He is, by far more qualified to speak than  
> most who are here. Frankly I enjoyed it!  
>  
> For those who complain that they're paying for each E-Mail message they  
> receive, I suggest you look around at changing servers. There are PLENTY who  
> charge flat rate for their services. AOL is one if you prefer the giant  
> servers, and Earthlink is another as a WWW provider. Those that can't get  
> local phone access and are paying LD charges, buy a faster modem!  
>  
> Bottom Line: QUIT COMPLAINING for cryin' out loud!  
>  
> There's no need to fwd your opinions about who sent what to where and whether  
> or not YOU deem it fit for APRS. If you can't resist complaining, send it  
> direct, but quit complaining to the SIG. We're not interested!  
>  
> Can't stand it anymore and HAVE to sign-off?: 73 & SEE YA!  
>  
> I hope you who are doing the whining are just about thru cause I'm getting  
> tired of mass deletes.  
>  
>  
> Happy Holidays,  
>  
> Jeff - WA6EQU  
>  
>

KEEP YOUR DELETE KEY POLISHED BECAUSE I THINK YOU MAYBE USING IT. WE HAVE  
THE RIGHT TO COMPLAIN JUST LIKE YOU HAVE THE RIGHT TO DO WHAT YOU JUST DID,

"WHIN".....

IT BECOMES VERY TIRING TO READ THE SAME THING OVER AND OVER AND OVER AGAIN DAY AFTER DAY. PLEASE ADDRESS THE RESPONSES TO THOSE WHO WISH THE RESPONSE. THAT WILL TAKE CARE OF MOST OF THE PROBLEM. THIS IS DESTINE FOR WIDE DISTRIBUTION FOR A REASON, AND YES I AM YELLING...

SINCERLY

BRAD AMBERS

From brad@ecst.csuchico.edu Thu Dec 28 02:56:15 1995  
Received: from abyss.ecst.csuchico.edu (brad@abyss.ecst.csuchico.edu [132.241.1.34]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id CAA15135 for <aprssig@tapir.org>; Thu, 28 Dec 1995 02:56:13 -0600 (CST)  
Received: (from brad@localhost) by abyss.ecst.csuchico.edu (8.6.12/8.6.10) id AAA04006; Thu, 28 Dec 1995 00:56:09 -0800  
Date: Thu, 28 Dec 1995 00:56:08 -0800 (PST)  
From: Bradley Lee Ambers <brad@ecst.csuchico.edu>  
To: APRSSIG <aprssig@tapir.org>  
Subject: Eagle ACCUNAV SPORT GPS  
Message-ID: <Pine.HPP.3.91.951228005248.3949B-100000@abyss.ecst.csuchico.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I just received a new Eagle ACCUNAV Sport GPS unit for Christmas. I have one question so far, which is, What is the max SOG (speed over ground) that this unit will track. I know the Magellan will do around 950 miles per hour. Thank you for you help in advance and I am sure I will have more when it comes to hooking the unit up to one of the KPC-3 TNC's I have.

73 all

Brad

From jhussey@freenet.columbus.oh.us Thu Dec 28 05:09:27 1995  
Received: from ronco.freenet.columbus.oh.us (ronco.freenet.columbus.oh.us [164.107.107.13]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id FAA18726 for <aprssig@tapir.org>; Thu, 28 Dec 1995 05:09:25 -0600 (CST)  
Received: from acme.freenet.columbus.oh.us by ronco.freenet.columbus.oh.us (8.6.10/4.940426) id GAA24397; Thu, 28 Dec 1995 06:09:16 -0500  
Received: by acme.freenet.columbus.oh.us (8.6.10) id GAA18639; Thu, 28 Dec 1995 06:09:16 -0500  
Date: Thu, 28 Dec 1995 06:02:37 -0500 (EST)  
From: Joseph Hussey <jhussey@freenet.columbus.oh.us>  
Subject: KPC-3 Problems  
To: aprssig@tapir.org  
Message-ID: <Pine.3.07.9512280637.A18189-9100000@acme>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Kantronics service can be reached via e-mail at:

servivce@kantronics.com

Be sure to include your product ID - software version (as it appears when you power the unit up) - and both your e-mail and postal mail address.

Be sure to detail the problem (if it happens at a certain time with a GPS (type of GPS, etc.) connected.

73s de Joe W8RIK

From kheyboer@pinegov.co.pinellas.fl.us Thu Dec 28 05:55:36 1995  
Received: from pinegov (pinegov.co.pinellas.fl.us [136.174.202.1]) by  
sys1.tapir.org (8.7.2/8.7.2) with SMTP id FAA19852 for <aprssig@tapir.org>; Thu, 28  
Dec 1995 05:55:33 -0600 (CST)  
Received: by pinegov (5.0/SMI-SVR4)  
id AA13332; Thu, 28 Dec 1995 11:50:46 +0000  
Errors-To: root@pinegov.co.pinellas.fl.us  
Date: Thu, 28 Dec 1995 11:50:44 +0000 (EST)  
From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>  
To: aprssig@tapir.org  
Subject: Re: [APRSSIG:5552] APRS Gateways  
In-Reply-To: <9512280044.AA12742@mail1>  
Message-Id: <Pine.SUN.3.91.951228114605.13317A-1000000@pinegov>  
Mime-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 27 Dec 1995, Tom & Linda MacKay wrote:

> We will be taking a trip from New Hampshire to Florida in February, and I  
> would like to know if there is a published list of gateway calls. I know the  
> one in NH is NR1N-2 but are there others in the rest of the states.

>

> Thank you Tom N1HQF

>

>

In Florida:

St. Petersburg: KD4UYR

Lakeland : WB9OML

West Palm Bch : N2CZF

However, Tom, addressing a packet to the callsign will NOT result in passing the traffic through the gate. VHF Mobile stations may place GATE,GATE,WIDE in their unproto path to ensure transmission back to their home base. The totally generic (mobile only) path for GPS reporting mobile stations is: RELAY,WIDE,GATE,GATE,WIDE...



73 and I hope it warms up for you by the time you get here

Kevin Heyboer KD4UYR in Seminole, Florida where it is 44 degrees with a North wind at 2.

From rwf@mindspring.com Thu Dec 28 09:09:27 1995  
Received: from borg.mindspring.com (root@borg.mindspring.com [204.180.128.14]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id JAA25019 for <aprssig@tapr.org>; Thu, 28 Dec 1995 09:09:25 -0600 (CST)  
Received: from rwf.mindspring.com [168.121.44.154] by borg.mindspring.com with SMTP id KAA15924 for <aprssig@tapr.org>; Thu, 28 Dec 1995 10:09:17 -0500  
Date: Thu, 28 Dec 1995 10:09:17 -0500  
Message-Id: <199512281509.KAA15924@borg.mindspring.com>  
X-Sender: rwf@mindspring.com  
X-Mailer: Windows Eudora Version 2.1.1  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: aprssig@tapr.org  
From: rwf <rwf@mindspring.com>  
Subject: Bulletins on HF

At 04:31 PM 12/27/95 -0600, Bob Wilkins wrote:

(short excerpt below)

>I see way too many BLN s sent out that are not of interest to amateurs on  
>APRS. One Way Bulletins must be of interest to the Amateur Service. Any  
>thing else is broadcasting. I am sure to see " BLN1 Way to Go 49ers!  
>SuperBowl Winners! ".

I will say "Amen" to this. I haven't ever seen the 49ers message, but have been noticing a lot of others.

I've been home several days on a long vacation with nothing better to do, so I have really been watching APRS heavily.

There has been a bulletin for days advertising that a certain APRS group is now on the WWW. There were also sports scores. And beacons of persons home stations (not even WX equipped). This stuff seems endless. It is usually transmitted GATE,WIDE,WIDE, or even WIDE,GATE,GATE,WIDE,WIDE .

If a group has an announcement ie: "APRS74z is now on TAPR" or whatever, then fine. A message sent for a few minutes is sufficient, in my opinion.

I'm glad that the group mentioned above is on the WWW and that they are proud of their team, but it must certainly clog up HF- especially since it is so noticable here on on VHF.

Please keep the sports scores local and off the GATEways please. I have ESPN for that.

And on the subject of this, I see lots of unacked messages flying around on HF. There was one today: Someone was sending his web page address to someone else. As sometimes happens in APRS messaging, the guy started typing his message in the place where the call sign was supposed to go. So he ended up sending his transmission to a callsign of WWW. This message flew around for at least half an hour, with a GATE,WIDE,WIDE tacked onto it. I even thought of changing my call to WWW so it would ack ;)

I am not addressing the legality of this, only the courtesy of controlling your messages properly. When you put something out, make sure it goes where it is supposed to, or is cancelled. No wonder HF is clogged up. I usually take the easy way out and turn on the gate filter. It saves my P List spots but unfortunately does nothing to relieve the congestion!

Happy new year

Ralph

From Paul\_Moller@csg.mot.com Thu Dec 28 09:28:16 1995  
Received: from motgate.mot.com (motgate.mot.com [129.188.136.100]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id JAA25526 for <aprssig@tapir.org>; Thu, 28 Dec 1995 09:28:13 -0600 (CST)  
Received: from pobox.mot.com (pobox.mot.com [129.188.137.100]) by motgate.mot.com (8.7.1/8.6.10/MOT-3.8) with ESMTP id JAA14937 for <aprssig@tapir.org>; Thu, 28 Dec 1995 09:27:40 -0600 (CST)  
Received: from OAMPC10.csg.mot.com (OAMPC10.csg.mot.com [144.188.134.33]) by pobox.mot.com (8.7.1/8.6.10/MOT-3.8) with SMTP id JAA00541 for <aprssig@tapir.org>; Thu, 28 Dec 1995 09:27:21 -0600 (CST)  
Received: from PaulM\_PC.csg.mot.com (PaulM\_PC.csg.mot.com [144.188.36.8]) by OAMPC10.csg.mot.com (8.6.8.1/8.6.6) with SMTP id JAA17391 for <aprssig@tapir.org>; Thu, 28 Dec 1995 09:35:03 -0600  
Message-Id: <2.2b10.32.19951228152916.006eaca8@144.188.134.33>  
X-Sender: mollpj@144.188.134.33  
X-Mailer: Windows Eudora Pro Version 2.2b10 (32)  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 28 Dec 1995 09:29:16 -0600  
To: aprssig@tapir.org  
From: Paul Moller <Paul\_Moller@csg.mot.com>  
Subject: Rain Guage + U2000

Here is a little tid bit to consider.

I have a rain gauge sold under the name RainWise by Austin Amateur supply (bought a few years ago) and don't want to pay \$100 for a Peet rain gauge for the U2000. I found out that the U2000 (and probably the UII also) use a 4 conductor modular connector for the rain gauge, where only the two center pins are actually used. The Peet rain gauge apparently merely momentarily shorts those contacts as another increment of rain is reached.

So...I used a 330 ohm resistor across the contacts to verify this operation. I measured the open circuit voltage at 5v, and with the 330 ohm resistor at



by lectroid.sw.stratus.com (8.6.11/8.6.11) with ESMTP id LAA05240 for  
<aprssig@tapr.org>; Thu, 28 Dec 1995 11:25:43 -0500  
Received: (from northup@localhost) by blackdog.sw.stratus.com (8.6.9/8.6.9) id  
LAA04994; Thu, 28 Dec 1995 11:25:42 -0500  
From: Bill Northup <northup@sw.stratus.com>  
Message-Id: <199512281625.LAA04994@blackdog.sw.stratus.com>  
Subject: Re: Another KPC-3 Problem  
To: aprssig@tapr.org (Mail-list APRS)  
Date: Thu, 28 Dec 1995 11:25:42 -0500 (EST)  
X-Mailer: ELM [version 2.4 PL20]  
Content-Type: text

I am glad to see that I am not crazy seeing these TX bursts. There appears to be a fair number that have seen this problem.

To answer a few question:

I have seen this happen 3 times. Twice while out on the road and noticed the TX light on and turned the kpc-3 off. If you turn it back on it will start TX again. If you leave it off for a minute and turn it back on it functions properly.

The last time it happened while my truck was sitting in the driveway. I was going to change some parameters in the TNC (via myremote) so I left the TNC and radio on, but the the GPS was off. It had been sitting there for about an hour. This tells me that the GPS was not doing something to start it.

I never noticed what time it started but it WAS always early evening so it could have been at 00:00:00Z.

The BLT line I have been using is  
BLT 1 EVERY 00:02:30 START 00:00:00

QUESTIONS:

1) Of the people that have seen this did everyone have a start time set ?

2) If so was it 00:00:00 ?

Tonight I will leave it on and see if this problem starts at 00:00:00Z. If it does I will change BLT to not specify a start time and see if it happens again tomorrow night.

LAST: I am reading this via digest (for time management reasons) so if anyone wants to get my attention without a day delay - send mail direct.

thanks all

Bill

--

Bill Northup  
Stratus Computer Inc.  
55 Fairbanks Boulevard  
Marlboro, MA 01752

INTERNET: northup@sw.stratus.com  
Amateur Radio: N1QPR  
QRP-NE #307  
NorCal #1027

From jleonard@tbcnet.com Thu Dec 28 11:06:06 1995  
Received: from tbc2.tbcnet.com (root@tbc2.tbcnet.com [205.199.1.5]) by  
sys1.tapr.org (8.7.2/8.7.2) with SMTP id LAA28779 for <aprssig@tapr.org>; Thu, 28  
Dec 1995 11:06:03 -0600 (CST)  
Received: from [205.199.1.129] (jbleonard.tbcnet.com [205.199.1.129]) by  
tbc2.tbcnet.com (8.6.12/8.6.12) with SMTP id LAA10952 for <aprssig@tapr.org>; Thu,  
28 Dec 1995 11:06:10 -0600  
Message-Id: <199512281706.LAA10952@tbc2.tbcnet.com>  
To: APRS SIG <aprssig@tapr.org>  
Subject: Re: [APRSSIG:5567] Rain Guage + U2000  
Date: Thu, 28 Dec 95 11:05:35 -0500  
From: "John B. Leonard" <jleonard@tbcnet.com>  
X-Mailer: E-Mail Connection v2.5.03

-- [ From: John B. Leonard \* EMC.Ver #2.5.02 ] --

If it increments in the exact values as the peet version, should work. May  
want to check first.

----- REPLY, Original message follows -----

> Date: Thursday, 28-Dec-95 09:33 AM  
>  
> From: Paul Moller \ Internet: (paul\_moller@csg.mot.com)  
> To: APRS SIG \ Internet: (aprssig@tapr.org)  
>  
> Subject: [APRSSIG:5567] Rain Guage + U2000  
>  
> Here is a little tid bit to consider.  
>  
> I have a rain gauge sold under the name RainWise by Austin Amateur supply  
> (bought a few years ago)

----- REPLY, End of original message -----

--

-----  
Disclaimer: Sometimes I don't know what I'm  
talking about. You'd better get a second opinion  
on this. My mouth usually runs on long after my  
knowledge on a subject runs out. It's a man-kinda  
thing.

J Barry Leonard  
DeKalb IL  
E-MAIL: jleonard@tbcnet.com

From KD4EMI@aol.com Thu Dec 28 11:35:02 1995  
Received: from emout04.mail.aol.com (emout04.mail.aol.com [198.81.10.12]) by  
sys1.taprr.org (8.7.2/8.7.2) with SMTP id LAA29808 for <aprssig@taprr.org>; Thu, 28  
Dec 1995 11:34:59 -0600 (CST)  
From: KD4EMI@aol.com  
Received: by emout04.mail.aol.com (8.6.12/8.6.12) id MAA28826; Thu, 28 Dec 1995  
12:33:54 -0500  
Date: Thu, 28 Dec 1995 12:33:54 -0500  
Message-ID: <951228123353\_100839691@emout04.mail.aol.com>  
To: aprssig@taprr.org  
cc: 0004818186@mcimail.com  
Subject: The results of Wx investigation are in.

I spoke via LL to ARRL Norm Bliss, who is responsible to  
regulatory issues there.  
He was typing a Email back to me, when I recieve it I will  
post it here.

Those of you who have not been following, this concerns the issue of  
activating a tnc to retransmit a aprs wx alert upon reciept of a  
NWS wx alert tone.

I'll tell you up front it is confusing, and I am dissapointed but the  
law is the law and here it is.

If the radio transmits because it heard the NWS alert, then its  
NOT legal.  
(now read carefully...Im still shaking my head)

If I normally make beacon transmissions, let's say every 9 minutes,  
and the alert tone simply changes the text of my beacon this is ok.  
But, if the tones cause me to change the timing of the beacon,  
(in otherwords step up the time to more frequently or immediate)  
then it's NOT legal.

So here we are, Now in S. Florida that would not be a big issue,  
9 minutes wont make a diff. but in Tornado alley, 9 minutes is too long to  
wait. So, if a NWS alert occured just after a beacon transmission, you would  
have to wait 9 minutes.  
I think this effectivily demasculates the program idea and Im  
short on cures to fix it.

Therefore, development on this project is now over.  
I will provide the text of the ARRL response to the sig when I get it  
(should be later today)

Id like to thank those of you who alerted me to the potential of  
violating FCC rules and appreciate the help from all.  
73 Mike  
KD4EMI@AOL.COM

From wd5ivd@taprr.org Thu Dec 28 12:30:54 1995  
Received: (from wd5ivd@localhost) by sys1.taprr.org (8.7.2/8.7.2) id MAA01696 for

aprssig@tapr.org; Thu, 28 Dec 1995 12:30:53 -0600 (CST)  
From: Greg Jones <wd5ivd@tapr.org>  
Message-Id: <199512281830.MAA01696@sys1.tapr.org>  
Subject: WX Alerts (fwd)  
To: aprssig@tapr.org (BBS SIG mailing)  
Date: Thu, 28 Dec 1995 12:30:53 -0600 (CST)  
X-Mailer: ELM [version 2.4 PL25]  
Content-Type: text

Hi gang.

Based on the NWS strand the other day I passed the message along to Paul Newland, AD7I. This is what Paul sent back ...there is a second message regarding the tone issue.

Some very interesting comments...that why I thought it would be good to share back with the SIG.

Cheers - Greg, WD5IVD

Forwarded message:  
From: Paul.Benjamin.Newland@att.com  
Date: Wed, 27 Dec 1995 16:10:21 -0500  
Subject: WX Alerts  
Reply-To: paul.newland@att.com (Paul Newland)

Greg --

Thanks for the stuff attached. The concept is a good one, however the current NOAA WX alert system is serious dog breath, which makes implementing the idea a big problem. This will be fixed as the old NOAA system is replaced by the new EAS/EBS system (same system for broadcast will be used by NOAA as I understand it).

The problem with the current NOAA system is that there is only one audio alerting tone (sustained goofy dual tones). And it's repeated once every broadcast cycle (about 10 minutes). I have a WX RX with alerting tone decoder at home. When it goes off the first time that's fine -- I get useful data. However when it goes off again another 10 minutes after that and again another 10 minutes after that, etc, etc, it gets to be a serious problem. One could modify the decoding algorithm such that when a decode tone is detected, any further tones will be ignored unless the tone has not been detected in the last 30 minutes. However, then one is vulnerable to having the voice message updated with new data and missing it because the alert tone continued to be broadcast every 10 minutes.

In the new alerting system (called EAS -- Emergency Alerting System if I remember right), data are transmitted via AFSK (goofy tones at goofy baud rate to make it harder for someone to implement an EBS system that looks like the president has just fired the nukes -- in fact, i think a good programmer with a sound card

can still create this "nukes" signal if they choose to invest the time to do so). Each new message will have a new sequence number (so that once you get a message error free you can ignore the repeats -- like NAVTEX) and it will include some content about the nature of the warning, location of the affected area (counties are the main units of area and are further subdivided into 9 sub-areas (like a tic-tac-toe board, squished and stretched to fit the county, I think each county administration defines the sub areas within their own county)).

About the best we can do with the current system is to detect the alert tones and then advise people to monitor the audio from NOAA WX radio. The ham alert should be sent out whenever the tone is now present but hasn't been present for the preceeding 30 minutes.

A better alternative might be to simply wait for the new EAS system to come on line and make use of the better data messaging capability of that system. A very cool think would be to have NOAA WX radio do some data under voice on their VHF transmitters. Consider them doing direct FSK of their VHF transmitters at +/-750 Hz 100 baud (sounds like 50 Hz). Shoot, that's no more obnoxious than PL tones. Encoding could be fancy using Reed-Soloman coding or just use SITOR FEC (it's error correcting, cheap, and there are a lot of decoders in the field!).

I will see what I can find on the specs for the new EAS system. The specs that I've seen still have some ambiguities. I wrote to ARRL HQ to see if they could get some info but I don't think they have good conections with the people actually doing this work within the government (which is now closed :(

Paul

\* \* \* \* \*

Thought you might like to read this.

Greg

\* \* \* \* \*

I was really supriised at the volume of mail that I received about the aprs wx alert idea. In less than 24 hours I have rec'd 30 messages, private and on the sig about it.

The following is the BASIC idea of what I am thinking. Any comments are not only invited but appreciated. Lets see how we can make this a common goal and I would like to try to get this on line and operating in a way that everyone could use. Heck it might actually save someones life !

Here is the idea....

Postage stamp computers are delightfull little devices that have I/O ports



and xmit data in various formats. They can also generate DTMF tones, as well as count cycles and a zillion other little a/d conversion applications.

Simply interface a programmed stamp to the AUDIO output of a wx alert radio. The beep goes off indicating a wx alert. The stamp detects this. The stamp sends data to the tnc, reprogramming it with the already preprogrammed wx beacon. This beacon of course is going to be compatible with the aprs wx beacon format. The tnc sends out the wx alert data. Joe ham down the street, who is on aprs copies the wx alert and this sets off his alarm on his aprs program. (maybe a better way is to have Bob write a special code to just alert stations that nws wx alarm is active)

Anyway, if your within a certain radius of my (the wx station) station, your alarm goes off also.

Further, the DTMF capability of the system allows for beeper paging as well. This system does not decode wx alert specifics, but just alerts aprs users that a wx alert (within a certain radius) has been activated. NWS also tests the wx alert system and this can be detected by the clock on the stamp and a false alarm would not be sent. The test alert is at the same time every day (I will confirm this though) The system wont say...TORNADO COMING or HURRICANE COMING.

But will say...HEY GUYS..wake up, somethings going on that you better investigate. This is the basic idea. Now, lets make it better! Give me feedback, lets throw it around, and I will change and modify based on your comments.

I hope Ive explained it well enough, if not, just let me know.

One idea I just though of while typing this follows...

There are devices that shut off computers when they detect the EMI (har) spikes of lightning. I could tailor a chip (<\$50.00) that says, LIGHTNING WARNING...INCOMING THUNDERSTORM (great for S FL). This would be broadcast over the aprs local net. There is an idea ! !

I digress...

Mike

KD4EMI@AOL.COM

From wd5ivd@tapr.org Thu Dec 28 12:34:19 1995

Received: (from wd5ivd@localhost) by sys1.tapr.org (8.7.2/8.7.2) id MAA02061 for aprssig@tapr.org; Thu, 28 Dec 1995 12:34:17 -0600 (CST)

From: Greg Jones <wd5ivd@tapr.org>

Message-Id: <199512281834.MAA02061@sys1.tapr.org>

Subject: EAS Background (fwd)

To: aprssig@tapr.org (BBS SIG mailing)

Date: Thu, 28 Dec 1995 12:34:17 -0600 (CST)

X-Mailer: ELM [version 2.4 PL25]

Content-Type: text

Here is the second message regarding a new tone system being developed. This contains two items. Paul's comments to a PRM and the PRM.

Amendment of Part 73,	)	FO Docket 91-301
Subpart G, of the Commission's	)	FO Docket 91-171
Rules Regarding the	)	
Emergency Broadcast System	)	

The PRM is very interesting reading and I believe ties in with what was being discussed.

Cheers - Greg, WD5IVD

From: Paul.Benjamin.Newland@att.com  
Date: Wed, 27 Dec 1995 17:00:12 -0500  
Subject: EAS Background  
Reply-To: paul.newland@att.com (Paul Newland)

Iss 1. January 14, 1995

Comments of Paul Newland regarding the

Emergency Alerting System specification as described in Amendment of Part 73, Subpart G, of the Commission's Rules Regarding the Emergency Broadcast System, FO Docket 91-301, FO Docket 91-171, REPORT AND ORDER AND FURTHER NOTICE OF PROPOSED RULE MAKING (Adopted: November 10, 1994, Released: December 9, 1994), Subpart B - Equipment Requirements:

Section 11.31(a)(1)

-----  
Data rate of 520.83 is stated without a tolerance. Is the tolerance 1% like a teleprinter start/stop asynchronous framing format or is it 30 ppm like that use for synchronous Maritime Digital Selective Calling? No tolerance for audio tones indicated in this section. The first time a value appears it's tolerance should also be stated. The statement "Mark and space time must be 1.92 milliseconds" is redundant with data rate but if it stays it should be changed to "The duration of mark and space symbols shall be in multiples of 1.92 milliseconds +/- X percent [or PPM]."

Section 11.31(b)

-----  
This section implies that the term "backslash" is represented by the symbol "/". I believe the term backslash is more commonly associated with the symbol "\" (ASCII bit pattern 5C (base 16)). More clarity needs to be applied to this section. I truly do not know if "/" (ASCII 2F (base 15)) or "\" (ASCII 5C (base 16)) is intended for use as a separator between call sign and the "FM" or "TV" qualifier.

#### Section 11.31(c)

-----  
PREAMBLE -- In just looking at this off the top of my head it's not totally clear to me that this bit pattern will always ensure synchronization (at the end I make the point that synchronization issues are not discussed in this spec) if asynch framing is used.

In the examples it's not readily apparent what fields are variable and what fields are fixed. For example, it appears that [PREAMBLE], "ZCZC", "-" and "+" are fixed fields and in particular are fixed with those values, while "ORG", "EEE", "PSSCCC", "TTTT", "JJJHHMM" and "LLLLLLLL" are variable fields which in some cases are constrained to a particular set of values.

#### Section 11.31(a)(8)

-----  
Sloppy wording. Change "outside 200 Hz..." to "outside the range of 200 Hz..."

#### Section 11.31(i)

-----  
Sloppy wording. Change whole thing to "Alerting Tone Frequencies. The alerting audio tones shall have fundamental frequencies of 853 and 960 Hz +/- 0.5 Hz."

#### OPEN or UNCLEAR ISSUES

- 
1. What is the absolute modulation/deviation level of the alerting and mark/space tones?
  2. What's the tolerance of that level?
  3. How much relative difference in amplitude is allowed between the low and high frequency components of the alerting tone?
  4. How much relative difference in amplitude is allowed between the mark and space tones of the data signal?
  5. Should these be specified only at audio base band? Most systems state deviation/modulation to ensure that someone hasn't fouled the pre-emphasis.
  6. how are the data words blocked for transmission (how does a receiver know where one data word ends and the next begins)? is the transmission totally synchronous, and the only framing information must be derived from the preamble? or is teleprinter stop/start framing used? if so, how many start bits, how many stop bits?
  7. how many bits are used to compose a data word (I'm avoiding the

Reply Comments Due: March 24, 1995

By the Commission:

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## I. SUMMARY

1. By this action, we establish the Emergency Alert System (EAS), which will replace the existing Emergency Broadcast System (EBS). We require broadcast stations and cable systems to install and operate new equipment for national alerts while relaxing some requirements for noncommercial educational Class D FM stations and low power television stations. Satellite, Direct Broadcast Satellite (DBS), telephone and cellular carriers, and other service providers are encouraged to voluntarily participate. A standard protocol and new digital codes are adopted that will facilitate different technologies using the new system. Finally, procedures are streamlined so that more participants can work together effectively during emergencies.

2. In a Further Notice of Proposed Rule Making ("FNPRM") we seek comment on how services such as the Multipoint Distribution Service (MDS), Satellite Master Antenna Television (SMATV), and Video Dial Tone should participate in the new EAS. We also seek further comment on whether we should waive our EAS requirements for a defined class of "small" cable systems.

[...]

### Subpart B - Equipment Requirements

- 11.31 EAS protocol.
- 11.32 EAS Encoder.
- 11.33 EAS Decoder.
- 11.34 Acceptability of the equipment.
- 11.35 Equipment operational readiness.

[...]

### Subpart B - Equipment Requirements

- 11.31 EAS protocol.

(a) The EAS uses a four part message for an emergency activation of the EAS. The four parts are: Preamble and EAS Header Codes; audio Attention Signal; message; and, Preamble and EAS End Of Message (EOM) Codes.

- (1) The Preamble and EAS Codes must use Audio Frequency

Shift Keying at a rate of 520.83 bits per second to transmit the codes. Mark frequency is 2083.3 Hz and space frequency is 1562.5 Hz. Mark and space time must be 1.92 milliseconds. Characters are ASCII seven bit characters as defined in ANSI X3.4-1977.

(2) The Attention Signal must be made up of the fundamental frequencies of 853 and 960 Hz. The two tones must be transmitted simultaneously. The Attention Signal must be transmitted after the EAS header codes.

(3) The message may be audio, video or text.

(b) The ASCII dash and plus symbols are required and may not be used for any other purpose. Unused characters must be ASCII space characters. FM or TV call signs must use a backslash ASCII character (/) in lieu of a dash.

(c) The EAS protocol, including any codes, must not be amended, extended or abridged without FCC authorization. The EAS protocol and message format are specified in the following representation. Examples are also provided in the EAS Operating Handbook.

---

```
[PREAMBLE]ZCZC-ORG-EEE-PSSCCC+TTTT-JJJHHMM-LLLLLLLLL-
(one second pause)
[PREAMBLE]ZCZC-ORG-EEE-PSSCCC+TTTT-JJJHHMM-LLLLLLLLL-
(one second pause)
[PREAMBLE]ZCZC-ORG-EEE-PSSCCC+TTTT-JJJHHMM-LLLLLLLLL-
(at least a one second pause)
(transmission of 8 to 25 seconds of Attention Signal)
(transmission of audio, video or text messages)
(at least a one second pause)
[PREAMBLE]NNNN
(one second pause)
[PREAMBLE]NNNN
(one second pause)
[PREAMBLE]NNNN
(at least one second pause)
```

---

[PREAMBLE] This is a consecutive string of bits (sixteen bytes of AB hexadecimal[8 bit byte 10101011]) sent to clear the system, set AGC and set asynchronous decoder clocking cycles. The preamble must be transmitted before each header and End Of Message code.

ZCZC- This is the identifier, sent as ASCII characters ZCZC to indicate the start of ASCII code.

ORG- This is the Originator code and indicates who originally initiated the activation of the EAS. These codes are specified in paragraph (d) of this section.

EEE- This is the Event code and indicates the nature of the EAS activation. The codes are specified in paragraph (e) of this section. The Event codes must be compatible

with the codes used by the NWS Weather Radio Specific Area Message Encoder (WRSAME).

PSSCCC- This is the Location code and indicates the geographic area affected by the EAS alert. There may be 31 Location codes in an EAS alert. The Location code uses the Federal Information Processing System (FIPS) numbers as described by the U.S. Department of Commerce in National Institute of Standards and Technology publication 772. Each state is assigned an SS number as specified in paragraph (f) of this section. Each county is assigned a CCC number. A CCC number of 000 refers to an entire State or Territory. P defines county subdivisions as follows: 0 = all or an unspecified portion of a county, 1 = Northwest, 2 = North Central, 3 = Northeast, 4 = West Central, 5 = Central, 6 = East Central, 7 = Southwest, 8 = South Central, 9 = Southeast. Other numbers may be designated later for special applications. The use of county subdivisions will probably be rare and generally for oddly shaped or unusually large counties. Any subdivisions must be defined and agreed to by the local officials prior to use.

+TTTT- This indicates the valid time period of a message in 15 minute segments up to one hour and then in 30 minute segments beyond one hour; i.e., +0015, +0030, +0045, +0100, +0430 and +0600.

JJJHHMM- This is the day in Julian Calendar days (JJJ) of the year and the time in hours and minutes (HHMM) when the message was initially released by the originator using 24 hour Universal Coordinated Time (UTC). These codes must remain unchanged for retransmitted messages.

LLLLLLLL- This is the call sign or other identification of the broadcast station, or NWS office transmitting or retransmitting the message. These codes will be automatically affixed to all outgoing messages by the EAS encoder.

NNNN This is the End of Message (EOM) code sent as a string of four ASCII N characters.

(d) The only originator codes are:

Originator

Emergency Action

Notification Network

Primary Entry Point  
System

National Weather Service



Civil authorities

Broadcast station  
or cable system  
ORG Code

EAN

PEP

WXR

CIV

EAS (e) The following Event (EEE) codes are presently  
authorized:

Nature of Activation

Emergency Action Notification (National only)

Emergency Action Termination (National only)

National Information Center

National Periodic Test

Required Monthly Test

Required Weekly Test

Tornado Watch

Tornado Warning

Severe Thunderstorm Watch

Severe Thunderstorm Warning

Severe Weather Statement

Special Weather Statement

Flash Flood Watch

Flash Flood Warning

Flash Flood Statement

Flood Watch

Flood Warning

Flood Statement

Winter Storm Watch

Winter Storm Warning

Blizzard Warning

High Wind Watch

High Wind Warning

Hurricane Watch

Hurricane Warning

Hurricane Statement

Tsunami Watch

Tsunami Warning

Evacuation Immediate

Civil Emergency Message

Practice/Demo Warning

Administrative Message

#### EVENT CODES

EAN

EAT

NIC

NPT

RMT

RWT

TOA

TOR

SVA

SVR

SVS

SPS

FFA

FFW

FFS

FLA

FLW  
 FLS  
 WSA  
 WSW  
 BZW  
 HWA  
 HWW  
 HUA  
 HUW  
 HLS  
 TSA  
 TSW  
 EVI  
 CEM  
 DMO

ADR (f) The State and Territory FIPS number codes (SS) are as follows. County FIPS numbers (CCC) are contained in the State EAS Mapbook.

State FIPS#		State FIPS#		State FIPS#		State FIPS#		State FIPS#	
AL	01	HI	15	MA	25	NM	35	SD	46
AK	02	ID	16	MI	26	NY	36	TN	47
AZ	04	IL	17	MN	27	NC	37	TX	48
AR	05	IN	18	MS	28	ND	38	UT	49
CA	06	IA	19	MO	29	OH	39	VT	50
CO	08	KS	20	MT	30	OK	40	VA	51
CT	09	KY	21	NE	31	OR	41	WA	53
DE	10	LA	22	NV	32	PA	42	WV	54
FL	12	ME	23	NH	33	RI	44	WI	55
GA	13	MD	24	NJ	34	SC	45	WY	56

District of Columbia - 11

Terr. FIPS#		Terr. FIPS#		Terr. FIPS#		Terr. FIPS#		Terr. FIPS#	
AS	60	FM	64	GU	66	MH	68	MP	69
PR	72	PW	70	UM	74	VI	78		

### 11.32 EAS Encoder.

(a) EAS Encoders must at a minimum be capable of encoding the EAS protocol described in 11.31 and providing the EAS code transmission requirements described in 11.51. EAS encoders must additionally provide the following minimum specifications:

(1) Encoder programming. Access to encoder programming shall be protected by a lock or other security measures and be configured so that authorized personnel can readily select and program the EAS Encoder with Originator, Event and Location codes for either manual or automatic operation.

(2) Inputs. The encoder shall have two inputs, one for audio messages and one for data messages (RS-232C with standard protocol and 1200 baud rate).

(3) Outputs. The encoder shall have two outputs, one audio port and one data port (RS-232C with standard protocol and 1200 baud rate).

(4) Calibration. EAS Encoders must provide a means to comply with the modulation levels required in 11.51(f).

(5) Day-Hour-Minute and Identification Stamps. The encoder shall affix the JJJHHMM and LLLLLLLL codes automatically to all initial messages.

(6) Program Data Retention. Program data and codes shall be retained even with the power removed.

(7) Indicator. An aural or visible means that is activated when the Preamble is sent and deactivated at the End of Message code.

(8) Spurious Response. All frequency components outside 200 to 4000 Hz shall be attenuated by 40 dB or more with respect to the output levels of the mark or space frequencies.

(9) Attention Signal generator. The encoder must provide an attention signal that complies with the following:

(i) Tone Frequencies. The audio tones shall have fundamental frequencies of 853 and 960 Hz and not vary over 0.5 Hz.

(ii) Harmonic Distortion. The total harmonic distortion of each of the audio tones may not exceed 5% at the encoder output terminals.

(iii) Minimum Level of Output. The encoder shall have an output level capability of at least +8 dBm into a 600 Ohm load impedance at each audio tone. A means shall be provided to permit individual activation of the two tones for calibration of associated systems.

(iv) Time Period for Transmission of Tones. The encoder shall have timing circuitry that automatically generates the two tones simultaneously for a time period of not less than 8 nor longer than 25 seconds. NOTE: Prior to July 1, 1995, the Attention Signal must be at least 20 and not more than 25 seconds.

(v) Inadvertent activation. The switch used for initiating the automatic generation of the simultaneous tones shall be protected to prevent accidental operation.

(vi) Indicator Display. The encoder shall be provided with a visual and/or aural indicator which clearly shows that the Attention Signal is activated.

(b) Operating Temperature and Humidity. Encoders shall have the ability to operate with the above specifications within an ambient temperature range of 0 to +50 degrees C and a range of relative humidity of up to 95%.

(c) Primary Supply Voltage Variation. Encoders shall be capable of complying with the requirements of this section during a variation in primary supply voltage of 85 percent to 115 percent of its rated value.

(d) Testing Encoder Units. Encoders not covered by 11.34(e) of this part shall be tested in a 10 V/m minimum RF field at an AM broadcast frequency and a 0.5 V/m minimum RF field at an FM or TV broadcast frequency to simulate actual working

conditions.

### 11.33 EAS Decoder.

(a) An EAS Decoder must at a minimum be capable of decoding the EAS protocol described in 11.31, provide the EAS monitoring functions described in 11.52, and the following minimum specifications:

(1) Inputs. Decoders must have the capability to receive at least 2 audio inputs from EAS monitoring assignments, and one data input (RS-232C with standard protocol and 1200 baud rate). The data input may be used to monitor other communications modes such as Radio Broadcast Data System (RBDS), NWR, satellite, public switched telephone network, or any other source that uses the EAS protocol.

(2) Valid codes. There must be a means to determine if valid EAS header codes are received and to determine if preselected header codes are received.

(3) Storage. Decoders must provide the means to:

(i) Record and store at least two minutes of audio or text messages.

(ii) Store at least 10 preselected header codes for comparison with incoming header codes. A non-preselected header code that is manually transmitted must be stored for comparison with later incoming header codes. The header codes of the last ten received valid messages which still have valid time periods must be stored for comparison with the incoming valid header codes of later messages. The header codes will be deleted from storage as their valid time periods expire.

(4) Display. A visual message shall be developed from any valid EAS header codes received. The message will include the Originator, Event, Location, the valid time period of the message and the local time the message was transmitted. The message shall be in the primary language of the broadcast station or cable system and be fully displayed on the decoder and readable in normal light and darkness.

(5) Indicators. EAS Decoders must have a distinct aural or visible means to show that it is activated when:

(i) any valid EAS header codes are received as specified in 11.33(a)(10).

(ii) preprogrammed header codes, such as those selected in accordance with 11.52(d) are received

(iii) a signal is present at each audio input that is specified in 11.33(a)(1).

(6) Program Data Retention. The program data must be retained even with power removed.

(7) Outputs. Decoders shall have the following outputs: a data port or ports (RS-232C with standard protocol and 1200 baud rate) where received valid EAS header codes and received preselected header codes are available; one audio port that is capable of monitoring each decoder audio input; and, an internal speaker to enable personnel to hear audio from each input.

(8) Decoder Programming. Access to decoder programming

shall be protected by a lock or other security measures and be configured so that authorized personnel can readily select and program the EAS Decoder with preselected Originator, Event and Location codes for either manual or automatic operation.

(9) Reset. There shall be a method to automatically or manually reset the decoder to the normal monitoring condition. If an end of message code (EOM) is not received for an EAS message, operators shall be able to select an automatic reset time which may not be less than two minutes. Messages received with the EAN Event codes shall disable the reset function so that lengthy audio messages can be handled. The last message received with valid header codes shall be displayed as required by

11.33(a)(4) of this section before the decoder is reset.

(10) Message Validity. An EAS Decoder must provide error detection and validation of the header codes of each message to ascertain if the message is valid. Header code comparisons may be accomplished through the use of a bit-by-bit compare or any other error detection and validation protocol. A header code must only be considered valid when two of the three headers match exactly. Duplicate messages must not be relayed automatically.

(11) A header code with the EAN Event code specified in 11.31(c) of this part that is received through either of the two audio inputs must override all other EAS messages.

(b) Attention Signal. EAS Decoders at broadcast stations shall have detection and activation circuitry that will demute a receiver upon detection of the two audio tones of 853 Hz and 960 Hz. To prevent false responses, decoders designed to use the two tones for broadcast receiver demuting shall comply with the following:

(1) Time Delay. A minimum time delay of 8 but not more than 16 seconds of tone reception shall be incorporated into the demuting or activation process to insure that the tones will be audible for a period of at least 4 seconds. After July 1, 1995, the time delay shall be 3-4 seconds.

(2) Operation Bandwidth. The decoder circuitry shall not respond to tones which vary more than 0.5 Hz from each of the frequencies, 853 Hz and 960 Hz.

(3) Reset Ability. The decoder shall have a means to manually or automatically reset the associated broadcast receiver to a muted state.

(b) Decoders shall be capable of operation within the tolerances specified in this section as well as those in 11.32(b), (c) and (d).

#### 11.34 Acceptability of the equipment.

(a) An EAS Encoder used for generating the EAS codes and the Attention Signal must be Certified in accordance with the procedures in Part 2, Subpart J, of this chapter. The data and information submitted must show the capability of the equipment to meet the requirements of this Part as well as the requirements contained in Part 15 of this chapter for digital devices.

(b) Decoders used for the detection of the EAS codes and

receiving the Attention Signal must be Certified in accordance with the procedures in Part 2, Subpart J, of this chapter. The data and information submitted must show the capability of the equipment to meet the requirements of this Part as well as the requirements contained in Part 15 of this chapter for digital devices.

(c) The functions of the EAS decoder, Attention Signal generator and receiver, and the EAS Encoder specified in 11.31, 11.32 and 11.33 may be combined and notified as a single unit provided that the unit complies with all specifications in this rule section.

(d) Manufacturers must include instructions and information on how to install, operate and program an EAS Encoder, EAS Decoder, or combined unit and a list of all State and county FIPS numbers with each unit sold or marketed in the U.S.

(e) Waiver requests of the Certification requirements for EAS Encoders or EAS Decoders which are constructed for use at a broadcast station or subject cable system, but are not offered for sale will be considered on an individual basis in accordance with Part 1, Subpart G, of this chapter.

#### 11.35 Equipment operational readiness.

(a) Broadcast stations and subject cable systems are responsible for ensuring that EAS Encoders, EAS Decoders and Attention Signal generating and receiving equipment used as part of the EAS is installed so that the monitoring and transmitting functions are available during the times the broadcast station or cable system is in operation. Additionally, broadcast stations and subject cable systems must determine the cause of any failure to receive the required tests or activations specified in 11.61(a)(1) and (2). Appropriate entries must be made in the broadcast station log as specified in 73.1820 and 73.1840 of this chapter, cable system record in 76.305 of this chapter indicating reasons why any tests were not received.

(b) If the EAS Encoder or EAS Decoder becomes defective the broadcast station or subject cable system may operate without the defective equipment pending its repair or replacement for a period not in excess of 60 days without further FCC authority. Entries shall be made in the broadcast station log or subject cable system records showing the date and time the equipment was removed and restored to service. For personnel training purposes, the required monthly test script must still be transmitted even though the equipment for generating the EAS message codes, Attention Signal and EOM code is not functioning.

(c) An informal request may be made to the Engineer-in-charge of the FCC field office serving area in which the broadcast station or subject cable system is located for additional time to complete repairs to the defective equipment. These requests must explain what steps have been taken to repair or replace the defective equipment, the alternative procedures being used while the defective equipment is out of service, and when the defective equipment will be repaired or replaced.

From taf8892@madison.tec.wi.us Thu Dec 28 14:50:29 1995  
Received: from mail.madison.tec.wi.us (mail.madison.tec.wi.us [198.150.10.5]) by  
sys1.tapir.org (8.7.2/8.7.2) with SMTP id OAA05943 for <aprssig@tapir.org>; Thu, 28  
Dec 1995 14:50:22 -0600 (CST)  
Received: from taf8892-1.madison.tec.wi.us by mail.madison.tec.wi.us (8.6.9/4.03)  
id OAA04619; Thu, 28 Dec 1995 14:48:20 -0600  
Message-Id: <199512282048.OAA04619@mail.madison.tec.wi.us>  
X-Sender: taf8892@madison.tec.wi.us  
X-Mailer: Windows Eudora Version 1.4.3  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 28 Dec 1995 15:53:19 -0600  
To: aprssig@tapir.org  
From: taf8892@madison.tec.wi.us (Tom Fleming)  
Subject: Re: [APRSSIG:5571] The results of Wx investigation are in.

##### Stuff removed #####

>  
>If the radio transmits because it heard the NWS alert, then its  
>NOT legal.  
>(now read carefully...Im still shaking my head)  
>  
>If I normally make beacon transmissions, let's say every 9 minutes,  
>and the alert tone simply changes the text of my beacon this is ok.  
>But, if the tones cause me to change the timing of the beacon,  
>(in otherwords step up the time to more frequently or immediate)  
>then it's NOT legal.  
>

##### Stuff remove #####

How would this be different then a repeater rebroadcasting NOAA radio or  
the new EAS system using local repeater for paths.

I remember a broadcast about the EAS. The FCC man stated that this should  
not be a problem because this was emergency traffice. I do not see a differance.

Please check your contact at the FCC for rulings on the above cases.

```
-----  
Tom Fleming - Network Tech      | Life is T00 short to be |  
Postmaster                     | dull. So turn off the TV |  
Madison Area Tech College      | and enjoy life          |  
Internet      : taf8892@madison.tec.wi.us |                          |  
Callsign      : N9SZF           |                          |  
Phone         : 608-246-6140    |                          |
```



-----  
From jimk@on-ramp.net Thu Dec 28 15:39:51 1995  
Received: from mail.ee.net (root@mail.ee.net [206.31.38.3]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id PAA07583 for <aprssig@tapir.org>; Thu, 28 Dec 1995 15:39:45 -0600 (CST)  
From: jimk@on-ramp.net  
Received: from 206.21.24.105 ([206.21.24.105]) by mail.ee.net (8.6.11/8.6.9) with SMTP id QAA08491 for <aprssig@tapir.org>; Thu, 28 Dec 1995 16:39:34 -0500  
Date: Thu, 28 Dec 1995 16:39:34 -0500  
Message-Id: <199512282139.QAA08491@mail.ee.net>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
Subject: APRS on I-75  
To: aprssig@tapir.org  
Return-Receipt-To: jimk@on-ramp.net  
X-Mailer: SPRY Mail Version: 04.00.06.14

After a recent family trip over the Thanksgiving day holiday weekend, I can personally attest to the APRS activity on VHF along I-75 from central Ohio down to Atlanta Georgia. I must admit that I was a little disappointed with the APRS coverage in certain areas, but was pleasantly surprised by the time we hit Knoxville Tennessee.

From there on into Atlanta the VHF activity picked up quite a bit. By the time we had crossed the Georgia state line I got my first message from the gang down in Atlanta (some 100 miles down to the south-east).

Once we had made our final destination, I setup the temporary shack with my HT, KPC-3, and laptop. Lo and behold, I was sitting right under a Wide-area Digi 2 or 3 miles to the south-east atop one of Atlanta's higher mountain tops. From then on, I was quite impressed.

With the HT, I was seeing stations on VHF as far north as Knoxville, as far south as southern Georgia, as far west as central Alabama (Hi Bill, saw you too), and as far east as the western & west central Carolina's.

Wow! What a network! This was very impressive compared to the skimpy coverage I'm used to back home. So come on guys... (and gals) Ohio (Cleveland ? Very sparse down central Ohio way, Toldeo ? Mansfiled ? Never), Michigan (Rarely), Indiana (what happened to you guys?), WV (Never), Pennsylvania (only N3EOY). Let's get with it! These guys down south have put a lot of effort into there APRS network and its really paid off!

If I understood Ralph (N4NEQ) correctly, he said they saw me coming from Knoxville. Of course I was running HF on 10.151 simultaneously with VHF, but the gated position reports don't

get through as fast and as often as the chatter I was hearing on the local repeaters once I got there.

The major areas of APRS activity seen along our way was, of course, central & south-western Ohio (Columbus to Cincinnati), Lexington, Knoxville, and Atlanta. All-in-all though, we did have fairly good VHF coverage most of the way. Most likely due to band conditions, we had better VHF coverage on the way down than we did on the way back.

I do have complete track history files for all of the trip, so if anyone would like a copy of them please send me a PERSONAL E-Mail to [jimk@on-ramp.net](mailto:jimk@on-ramp.net). It should at least give you some kind of idea what the coverage is like along I-75 if you're planning a trip along this route.

Additionally I do have available, for those who might be interested, 2 programs for working with downloaded GPS LTrack data and track history files. I had set the LTrack buffer in my KPC-3 before we left for home, but somehow a lot of the data got scrambled.

I wrote "LTrack" to clean out this scrambled GPS data and a program called "Clean" for cleaning out the track history data I had saved along the way. I used this program to purge all stations other than mine from the track history data to some temporary files so I didn't have to wade through all the other stations just to see where I had been. Hi.Hi. It can also be used to purge just one station, if you like, for example to see everyone except yourself. Kinda useful I thought!

I wonder if anyone else has seen their LTrack data get scrambled? I can only presume that this happened due to an improper ground, and that the HF rig was getting into the KPC-3 somehow.

Also F.Y.I. - I have the 128K chip installed in my KPC-3 and it held 16,000 (that's sixteen thousand) lines of LTrack data. The data had an extra carriage return between every line of LTrack data, so in reality there was over 32,000 lines of data held in the buffer. I don't know if this is the exact nature of how the data comes out of the KPC-3's, or if it was caused by the communications program I used to retrieve it.

Due to the scrambled nature of the data, I can't say for sure that this means anything. But I think it does say something for the amount of GPS data that can be held with the 128K chip.

One last thing before I go... With the configuration I had, I could see any, and all, VHF activity coming in on the laptop, but to the APRS community it would have looked as though I

was running my GPS in a standalone mode. I ran it this way because my primary efforts on this trip were concentrated towards the local HF gate back home (KB8DP). Many people along the way tried to send me APRS messages on VHF, which did pop up on the screen. However, the way I had every thing configured I could not respond to any VHF messages that came in. If these people would have paid attention to the "raw\*" ID that they were receiving in my position reports they should have known I was running my VHF equipment in an "apparent" standalone mode.

The lesson to learn here is if you see "raw\*" coming in across the bottom of you screen with GPS position reports DO NOT try to send messages to these stations. They are not going to be able to respond to you. This only creates unnecessary traffic on the frequency. Your system will keep trying to send out these messages with no hopes of ever getting an \*ACK\*.

```
=====
| 73, de Jim (KG8GE) | jimk@on-ramp.net | Somewhere near the great |
| Home of PLT2MAP. | KG8GE@WN7C.NCOH.OH.USA | lakes! |
=====
```

From wd5ivd@tapr.org Thu Dec 28 16:17:23 1995  
Received: (from wd5ivd@localhost) by sys1.tapr.org (8.7.2/8.7.2) id QAA08749 for aprssig@tapr.org; Thu, 28 Dec 1995 16:17:22 -0600 (CST)  
From: Greg Jones <wd5ivd@tapr.org>  
Message-Id: <199512282217.QAA08749@sys1.tapr.org>  
Subject: Re: [APRSSIG:5571] The results of Wx investigation are in.  
To: aprssig@tapr.org  
Date: Thu, 28 Dec 1995 16:17:21 -0600 (CST)  
In-Reply-To: <951228123353\_100839691@emout04.mail.aol.com> from "KD4EMI@aol.com" at Dec 28, 95 11:45:11 am  
X-Mailer: ELM [version 2.4 PL25]  
Content-Type: text

>  
> Therefore, development on this project is now over.  
> I will provide the text of the ARRL response to the sig when I get it  
> (should be later today)  
>

Not at all. I think this is a very good application idea. Just think of another way of doing it so that it does fit into the rules.

Also -- don't forget that the rules are a living thing. If we find something that could be beneficial to amateur radio in what we do -- then we can go about it in legal ways to get modifications made to the rules to allow what we want to have done. Several things are involved here and I am sure others on the SIG can talk more in depth about them.

Don't let a little barrier like the rules as currently stated will not allow you to do it in your first concept -- kill it. That is the real fun about all this -- there are always lots of different ways to implement something.

If the tones can't affect what happens, then how could it be done so that the tones are only use as a data point.

As in the message I posted from Paul Newland, just using the tones is very limited. When another tone series begins, you have no clue to what the tones are associated with --- just that another alert is sounding.

So, when you first don't succeed, try, try again.

Cheers - Greg, WD5IVD

-----  
President -- Tucson Amateur Packet Radio Corp  
-----

TAPR Office (817) 383-0000 | Internet: gjonas@tenet.edu  
-----

From BenWS5R@aol.com Thu Dec 28 19:14:35 1995

Received: from mail02.mail.aol.com (mail02.mail.aol.com [152.163.172.66]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id TAA14080 for <aprssig@tapr.org>; Thu, 28 Dec 1995 19:14:32 -0600 (CST)

From: BenWS5R@aol.com

Received: by mail02.mail.aol.com (8.6.12/8.6.12) id UAA03988 for aprssig@tapr.org; Thu, 28 Dec 1995 20:13:59 -0500

Date: Thu, 28 Dec 1995 20:13:59 -0500

Message-ID: <951228201358\_101156264@mail02.mail.aol.com>

To: aprssig@tapr.org

Subject: Re: [APRSSID:5551] 6M APRS Activity...

Whatever we do we need to decide what frequency we are going to use. I have seen reports of 6m activity on 50.620 and 50.610. Have been running 6m APRS during the E-skip of the last few days and have seen nothing, although I did connect with a node in Wisconsin from NW Texas and got into there 2m net and played around, so it can work.

I'll probably be flamed again, but oh well won't be the last time. What about a 2m and 6m weak signal (aka SSB) freq, It would be nice to have one to try for periods of E-skip, meteor showers, etc. And it might turn out to be a great beacon system!

On another note has anyone done or thought of tying a 6m rig in with a wide? I mean having a 2m rig and 6m rig running off of one single port TNC, so it will basically act as a dual freq node? I don't know if this will work or not, but any ideas are welcome.

Go ahead and flame and whine, cause I wear an asbestos suit all the time! I'm

also qualified and licensed to remove it.

Ben WS5R at What Lakes? Amarillo TX benws5r@arn.net

From ksproul@hardees.Rutgers.EDU Thu Dec 28 19:50:04 1995  
Received: from old-hercules.rutgers.edu (old-hercules.rutgers.edu [128.6.18.82])  
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id TAA15314 for <aprssig@tapr.org>; Thu,  
28 Dec 1995 19:49:58 -0600 (CST)  
Received: (from ksproul@localhost) by old-hercules.rutgers.edu  
(8.6.12+bestmx+oldruq+newsunq+grosshack/8.6.12) id LAA02447 for aprssig@tapr.org;  
Thu, 28 Dec 1995 11:26:42 -0500  
Sender: Keith Sproul <ksproul@old-hercules.rutgers.edu>  
Date: Thu, 28 Dec 95 11:26:42 EST  
From: Keith Sproul <ksproul@hardees.Rutgers.EDU>  
Reply-To: Keith Sproul <ksproul@hardees.Rutgers.EDU>  
To: aprssig@tapr.org  
In-Reply-To: Your message of Thu, 28 Dec 1995 09:14:21 -0600 (CST)  
Subject: RE: Way to many BLNs  
Message-ID: <CMM-RU.1.4.820168002.ksproul@old-hercules.rutgers.edu>

>I see way too many BLN s.....

I agree with this.. There are BLNs that get repeated DAY AFTER DAY AFTER  
DAY.. and this gets to be too much..

MacAPRS and WinAPRS currently do the following for MESSAGES...  
The messages get sent Once a minute for 5 minutes, then if still  
not acked, once a hour for 5 hours. (This is so that msgs that  
need to go via HF have a chance for propagation to change).

After that, The message dies.. Currently, BLNs are treated the EXACT same  
way. Which means that a message will at MAXIMUM transmit for 5 hours then  
stop. (This time limit of 5 hours IS user-setable, but the default is 5, and  
the software will NOT allow anything more than 24 to be entered)

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	ksproul@noc.rutgers.edu
Rutgers University Computing Services	908 445-3695 Work 908 445-2968 Fax
<a href="http://www-ns.rutgers.edu/~ksproul/">http://www-ns.rutgers.edu/~ksproul/</a>	908 821-4828 Home

From moyers@ibm.net Thu Dec 28 21:17:32 1995  
Received: from smtp-gw01.ny.us.ibm.net ([165.87.194.252]) by sys1.tapr.org  
(8.7.2/8.7.2) with SMTP id VAA24290 for <aprssig@tapr.org>; Thu, 28 Dec 1995  
21:17:29 -0600 (CST)  
Received: (from uucp@localhost) by smtp-gw01.ny.us.ibm.net (8.6.9/8.6.9) id  
DAA01872 for <aprssig@tapr.org>; Fri, 29 Dec 1995 03:00:40 GMT  
Message-Id: <199512290300.DAA01872@smtp-gw01.ny.us.ibm.net>  
Received: from slip166-72-241-74.tn.us.ibm.net(166.72.241.74) by smtp-  
gw01.ny.us.ibm.net via smap (V1.3mjr)  
id smaNEgDmb; Fri Dec 29 03:00:36 1995

X-Mailer: Post Road Mailer (Green Edition Ver 1.03a)  
From: N4QEA <moyers@ibm.net>  
To: aprssig@tapr.org  
Date: Thu, 28 Dec 1995 22:03:47 EST  
Reply-To: N4QEA <moyers@ibm.net>  
Subject: Re: [APRSSIG:5575] APRS on I-75

\*\* Reply to note from jimk@on-ramp.net 12/28/95 3:54pm -0600

> After a recent family trip over the Thanksgiving day holiday  
> weekend, I can personally attest to the APRS activity on VHF  
> along I-75 from central Ohio down to Atlanta Georgia. I must  
> admit that I was a little disappointed with the APRS coverage  
> in certain areas, but was pleasantly surprised by the time we  
> hit Knoxville Tennessee.

Snip snip

>  
> If I understood Ralph (N4NEQ) correctly, he said they saw me  
> coming from Knoxville. Of course I was running HF on 10.151  
> simultaneously with VHF, but the gated position reports don't  
> get through as fast and as often as the chatter I was hearing  
> on the local repeaters once I got there.

Jim, just wanted to drop this line to you. Glad you got back ok. I had watched you off and on on your drive back north from Atlanta thru Knoxville, and up the side of the MTN above CARYVILLE. TN. I loved the Altitude data, for once I could use the Y axis in APRS and see the terrain as you traveled.

As info for you and other travelers heading south on I-75. As you Enter Tn heading South, you may want to change your beacons to either RELAY,WIDE,WIDE,N4NEQ-2 or WIDE,WIDE,N4NEQ-2. We are fortunate here to have 2 digi's at +3000 Ft ASL with coverage over most of the East TN valley. We still have some large holes in coverage along I-75 between Knoxville and Chattanooga but are working on those. By using the above unproto paths you should be able to be seen down into Atlanta. After you get to Chattanooga you may wish to change to just wide,wide or Wide, wide,TN. The TN will let use back up here In Knoxville see you.

73

John Moyers  
ARS; N4QEA  
Packet; N4QEA @ N4QEA.#METN.TN.USA.NA  
Inet; moyers@ibm.net  
Cruise Missile; 36,02.89N/83,43.35W

From jhussey@freenet.columbus.oh.us Fri Dec 29 04:49:10 1995  
Received: from ronco.freenet.columbus.oh.us (ronco.freenet.columbus.oh.us [164.107.107.13]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id EAA12834 for <aprssig@tapr.org>; Fri, 29 Dec 1995 04:49:08 -0600 (CST)  
Received: from acme.freenet.columbus.oh.us by ronco.freenet.columbus.oh.us

(8.6.10/4.940426)

id FAA28224; Fri, 29 Dec 1995 05:49:04 -0500  
Received: by acme.freenet.columbus.oh.us (8.6.10) id FAA26089; Fri, 29 Dec 1995 05:49:03 -0500  
Date: Fri, 29 Dec 1995 05:46:37 -0500 (EST)  
From: Joseph Hussey <jhussey@freenet.columbus.oh.us>  
Subject: Kantronics e-mail  
To: aprssig@tapr.org  
Message-ID: <Pine.3.07.9512290537.A26020-8100000@acme>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Kantronics service e-mail address should read:

service@kantronics.com

Regret any confusion that may have resulted from the type error in my previous posting.

73s & Happy New Year - Joe W8RIK

From kheyboer@pinegov.co.pinellas.fl.us Fri Dec 29 06:40:55 1995  
Received: from pinegov (pinegov.co.pinellas.fl.us [136.174.202.1]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id GAA15520 for <aprssig@tapr.org>; Fri, 29 Dec 1995 06:40:50 -0600 (CST)  
Received: by pinegov (5.0/SMI-SVR4)  
id AA18388; Fri, 29 Dec 1995 12:35:27 +0000  
Errors-To: root@pinegov.co.pinellas.fl.us  
Date: Fri, 29 Dec 1995 12:35:27 +0000 (EST)  
From: Kevin Heyboer <kheyboer@pinegov.co.pinellas.fl.us>  
To: aprssig@tapr.org  
Subject: Re: [APRSSIG:5571] The results of Wx investigation are in.  
In-Reply-To: <951228123353\_100839691@emout04.mail.aol.com>  
Message-Id: <Pine.SUN.3.91.951229123027.18348B-1000000@pinegov>  
Mime-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 28 Dec 1995 KD4EMI@aol.com wrote:

> I spoke via LL to ARRL Norm Bliss, who is responsible to  
> regulatory issues there.  
> He was typing a Email back to me, when I recieve it I will  
> post it here.  
>  
> Those of you who have not been following, this concerns the issue of  
> activating a tnc to retransmit a aprs wx alert upon reciept of a  
> NWS wx alert tone.  
>

> I'll tell you up front it is confusing, and I am dissapointed but the  
> law is the law and here it is.  
>  
> If the radio transmits because it heard the NWS alert, then its  
> NOT legal.  
> (now read carefully...Im still shaking my head)  
>  
> If I normally make beacon transmissions, let's say every 9 minutes,  
> and the alert tone simply changes the text of my beacon this is ok.  
> But, if the tones cause me to change the timing of the beacon,  
> (in otherwords step up the time to more frequently or immediate)  
> then it's NOT legal.  
>  
> So here we are, Now in S. Florida that would not be a big issue,  
> 9 minutes wont make a diff. but in Tornado alley, 9 minutes is too long to  
> wait. So, if a NWS alert occured just after a beacon transmission, you would  
> have to wait 9 minutes.  
> I think this effectivily demasculates the program idea and Im  
> short on cures to fix it.  
>  
> Therefore, development on this project is now over.  
> I will provide the text of the ARRL response to the sig when I get it  
> (should be later today)  
>  
> Id like to thank those of you who alerted me to the potential of  
> violating FCC rules and appreciate the help from all.  
> 73 Mike  
> KD4EMI@AOL.COM  
>  
>  
Okay, Mike, now I am confused...where was the illegality...in the  
automated function of the beacon?

Certainly, If I am sitting at my APRS station and the WX alert goes off,  
and I issued a BLN1: Tornado Watch in effect for West Central Florida, I  
am not breaking any FCC rules. It is a temporary bulletin containing  
information of general interest to all amateur operators....and, BTW, it  
is also a transmission with regard to immediate protection of life and  
property...and could TECHNICALLY be called an emergency  
transmission...especially if it is a Tornado Warning, not just a watch.  
(All Tornado Warnings are issued "BULLETIN--EBS ACTIVATION REQUESTED.")

73 de Kevin  
KD4UYR  
kheyboer@co.pinellas.fl.us

From jds7801@mec7804a.dukepower.com Fri Dec 29 08:12:59 1995  
Received: from mec7804a.dukepower.com (mec7804a.dukepower.com [162.113.107.134])  
by sys1.taprr.org (8.7.2/8.7.2) with SMTP id IAA18337 for <aprrsig@taprr.org>; Fri,  
29 Dec 1995 08:12:55 -0600 (CST)  
Received: from nnb2ppp5.dukepower.com by mec7804a.dukepower.com (AIX 3.2/UCB  
5.64/4.03)  
id AA11742; Fri, 29 Dec 1995 09:01:55 -0500



Message-Id: <30E425AB.6CDB@mec7804a.dukepower.com>  
Date: Fri, 29 Dec 1995 09:30:19 -0800  
From: "John D. Snoddy" <jds7801@mec7804a.dukepower.com>  
Organization: DukeNet Communications, Inc.  
X-Mailer: Mozilla 2.0b3 (Win16; I)  
Mime-Version: 1.0  
To: aprssig@tapr.org  
Subject: Ultimeter 2000 Remote Problems  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Has anyone be able to get the U-2000 operating in the Remote Mode with Versions 74x of APRS? I connected my U-2000 to my TNC that is currently operating as Remote WX for a U-II. I turned the GPS feature off in the TNC and programed the U-2000 for Packet Mode. The Remote TNC transmits the following string every five minutes:

\$ULTW000000000008F000027DE0002CEBA0001036601670447

All of the above appears to be correct based on the documentation that I have read in APR's WX notes. There appears to be a problem with APRS when it tries to decode the message. As soon as APRS receives the above string, it bombs with an ERROR 6. I have tried this with both Ver. 74 and Ver. 74e. I also had another station monitor the channel and he reported the same problem with Ver. 74a. Thanks.

--

John D. Snoddy WA4SSP  
jds7801@mec7804a.dukepower.com

From WB4LTF@aol.com Fri Dec 29 11:40:02 1995  
Received: from mail06.mail.aol.com (mail06.mail.aol.com [152.163.172.108]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id LAA24630 for <aprssig@tapr.org>; Fri, 29 Dec 1995 11:39:56 -0600 (CST)  
From: WB4LTF@aol.com  
Received: by mail06.mail.aol.com (8.6.12/8.6.12) id MAA10837 for aprssig@tapr.org; Fri, 29 Dec 1995 12:39:24 -0500  
Date: Fri, 29 Dec 1995 12:39:24 -0500  
Message-ID: <951229123922\_80614863@mail06.mail.aol.com>  
To: aprssig@tapr.org  
Subject: Re: [APRSSIG:5565] Re: APRS Gateways

In a message dated 95-12-28 07:26:03 EST, you write:

>In Florida:  
>  
>St. Petersburg: KD4UYR  
>Lakeland : WB9OML  
>West Palm Bch : N2CZF

Add  
Orlando: KR4VH  
Bud  
wb4l1tf@aol.com

From gwelte@blueox.bji.net Fri Dec 29 12:55:20 1995  
Received: from blueox.bji.net (root@blueox.bji.net [206.31.226.1]) by  
sys1.tapir.org (8.7.2/8.7.2) with SMTP id MAA26904 for <aprssig@tapir.org>; Fri, 29  
Dec 1995 12:55:17 -0600 (CST)  
Received: from [206.31.226.32] ([206.31.226.32]) by blueox.bji.net (8.6.9/8.6.9)  
with SMTP id MAA06497 for <aprssig@tapir.org>; Fri, 29 Dec 1995 12:58:06 -0600  
Date: Fri, 29 Dec 1995 12:58:06 -0600  
X-Sender: gwelte@blueox.bji.net (Unverified)  
Message-Id: <v01530500ad09919c8656@[206.31.226.35]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable  
To: aprssig@tapir.org  
From: gwelte@blueox.bji.net (George A. Welte)  
Subject: Re: [APRSSIG:5582] Ultimater 2000 Remote Problems

John, thats the same problem I'm haveing with the Pk12 - U 2000 and  
APRS74f. I get the output from the weather station the same as you do, but  
it is not decoded into meaningful weather data. Do you save the material  
in any way so that the weather portion is validated. We evidently are  
missing something. If you find a cure, let me know and I will do the same  
for you. I have been trying for weeks now but to no avail.

George Welte N=D8WBU  
=46rom the 1st City on The Mississippi  
Bemidji, Mn

From MBTD87A@prodigy.com Fri Dec 29 13:00:02 1995  
Received: from pimaia2w.prodigy.com (pimaia2w.prodigy.com [192.207.105.46]) by  
sys1.tapir.org (8.7.2/8.7.2) with SMTP id MAA26936 for <aprssig@tapir.org>; Fri, 29  
Dec 1995 12:59:57 -0600 (CST)  
Received: from mailinb1.prodigy.com (tinahost [199.4.137.91]) by  
pimaia2w.prodigy.com (8.6.10/8.6.9) with SMTP id NAA56200 for <aprssig@tapir.org>;  
Fri, 29 Dec 1995 13:57:37 -0500  
Date: Fri, 29 Dec 1995 13:57:27 EST  
From: MBTD87A@prodigy.com (MR MICHAEL R HESKETT)  
X-Mailer: PRODIGY Services Company Internet mailer [PIM 3.2-334.50]  
Message-Id: <091.07561902.MBTD87A@prodigy.com>  
To: aprssig@tapir.org  
Subject: Space Mode & Dual -port TNC

-- [ From: Mike Heskett \* EMC.Ver #2.10P ] --

Does anyone have any experience with with Space mode automatically  
triggering on a dual-port TNC. In my case a KPC-4 (2 VHFports).

I used a single port TNC (PK-12) and APRS 7.4b and it automatically  
fired the beacon upon seeing the spacecraft (ROMIR). Testing this with  
my KPC-4, APRS did not fire automatically. When I was successfully  
digipeated after manual intervention, APRS did go through the "SUCCESS"

routine.

I normally use Port 1 on the KPC-4 for APRS and then either turn off the radio on Port 2 ( or put it in voice mode).

I also tried "Controls/ 2port" without any luck.

I wonder if there is a problem parsing the Unprotocol command for the spacecraft id, or is there something else I need to do.

In the KPC-4 the Unprotocol command has two parts - one for each port separated by a "/". Each port can be set independently of the other or they both can be set to the same thing. For example, with both ports set the same for me to digipeat through MIR, if you entered the "U" command, it would look like this:

UNPROTO EM12JU VIA ROMIR/EM12JU VIA ROMIR

Anyone have any experience with this or can experiment with it?

73 Mike

WB5QLD

From KD4EMI@aol.com Fri Dec 29 17:34:21 1995

Received: from mail04.mail.aol.com (mail04.mail.aol.com [152.163.172.53]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id RAA04847 for <aprssig@tapir.org>; Fri, 29 Dec 1995 17:34:18 -0600 (CST)

From: KD4EMI@aol.com

Received: by mail04.mail.aol.com (8.6.12/8.6.12) id SAA20155; Fri, 29 Dec 1995 18:33:42 -0500

Date: Fri, 29 Dec 1995 18:33:42 -0500

Message-ID: <951229183339\_26811124@mail04.mail.aol.com>

To: bkopp@omnifest.uwm.edu

cc: aprssig@tapir.org

Subject: Re: APRS WxAlert

Good day and Happy New Year!

Here is the last in the installmet of comments I have recieved.

My reply's are in caps.

Regarding your APRS severe weather notification system I would respectfully pose a few questions for your consideration.

-How many spotters/chasers have APRS?

-If one's pager sounds off they would need to access a Wx Radio for immediate description of the event.

-Why not just buy a pocket tone alert Wx radio and/or a desk model and have direct tone alerting and descriptions on your desk or in the palm of your hand? (Well -under- a \$100.00)

YOUR QUITE RIGHT. THE PURCHASE OF A HAND HELD  
WX RECIEVER WOULD FUNCTION VERY WELL. ALL IN ALL,  
I SEE NO PURPOSE AT THIS POINT TO THE APRS NET.

IT ADDS A LEVEL OF COMPLEXITY TO THE SYSTEM AND NOT REDUNDANCY. PERHAPS THE LIGHTNING WARNING SYSTEM WOULD BE A BETTER PROJECT. THIS IS NOT SOMETHING THAT IS ROUTINLY REPORTED ON WX WARNINGS.

What I don't understand is why standard tone alert weather radios would not be your first choice, and how does the paging system add any value to severe weather notification?

-----  
THIS NOTE THAT FOLLOWS IS FROM THE ARRL, I SENT A FEW OF OUR NOTES TO THEM FOR COMMENTARY.

Thanks Mike. Just as a response to the first commentator, the difference between most of what he is mentioning and the NWS alert is that the NWS alert is generated because a human being decided to issue an alert. The alert carries information intended for other humans, and so it's third party information on amateur radio.

The other conditions the person cited, a rain gauge hooked to an APRS system, or a repeater changing certain items due to battery failure, are not generated by humans. Neither the rain gauge nor wind indicator nor the repeater battery monitor send their information for any purpose whatever. The closest thing to a human, informational, intent in either of those systems is that the station licensee/control operator has intentionally and legally programmed the system to AUTOMATICALLY respond to natural, not human generated, phenomena and report them. Telemetry, the transmission of measurement information, is certainly legal. Decoding and transmitting an NWS alert does not constitute a measurement.

By the way, all the comments you forwarded are very well thought out, and I appreciate your passing them on.

THE BOTTOM LINE IS:

I think we are dead in the water, and honestly dont feel bad about it. This system really would not help anyone more than the wx alert radios would. IF you want an alert, carry a radio...

Im still in the mood to try and come up with a good application for aprs and these pic's.

thanks again to everyone, arrl included for your helpful comments and keeping the sig nice and not too flamey (is flamey a word !?)

Mike KD4EMI@AOL.COM

From bruninga@nadm.navy.mil Fri Dec 29 17:38:54 1995

Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id RAA04914 for <aprssig@tapir.org>; Fri, 29 Dec 1995 17:38:51 -0600 (CST)

Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id SAA16722; Fri, 29 Dec 1995 18:39:19 -0500

Date: Fri, 29 Dec 1995 18:39:18 -0500 (EST)

From: Bob Bruninga <bruninga@nadm.navy.mil>

To: aprssig@tapr.org  
Subject: More lessons learned  
Message-ID: <Pine.SUN.3.91.951229182719.16659A-1000000@greatlakes>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

When ever I travel with APRS I usually find some things to change. This time, only one thing came up. THOSE REDICULUOUS PHG-RINGS!

You wouldn't believe some of the rings I saw in the southeast

Here is where I can change it a little bit.

Presently APRS caculates the more-or-less proper range based on HAAT but then bumps it up for added gain above 3 dB and again for added power over 10 watts.

The POWER factor clearly does NOTHING for receive which was my intent for the PHG rings anyway. This screws the range ring beyond reality when the owner puts up an aligator... For my next version, I am going to drop the POWER factor from the size of the range rings for all stations EXCEPT your own. This way you will see the RECEIVE range of all other stations and the TRANSMIT range of your own. If the circles overlap, then you will be tracked...

I spent my entire vacation in Atlanta, only 8 miles from a WIDE. My terrain was about average, and after trying the attic, roof, and then a line into the top of a 40 foot tree, I still could NOT even HEAR the WIDE at all. I finally got out via another home station, but without hearing a WIDE, I could not see any more than 1 to three neighbors. The WIDE PHG ring, of course went FAR beyond my location...

From schiers@ibm.net Fri Dec 29 18:09:28 1995  
Received: from smtp-gw01.ny.us.ibm.net ([165.87.194.252]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id SAA05875 for <aprssig@tapr.org>; Fri, 29 Dec 1995 18:09:25 -0600 (CST)  
Received: (from uucp@localhost) by smtp-gw01.ny.us.ibm.net (8.6.9/8.6.9) id AAA27734 for < aprssig@tapr.org>; Sat, 30 Dec 1995 00:09:22 GMT  
Message-Id: <199512300009.AAA27734@smtp-gw01.ny.us.ibm.net>  
Received: from slip230-98.mo.us.ibm.net(129.37.230.98) by smtp-gw01.ny.us.ibm.net via smap (V1.3mjr)  
id smajEgCcx; Sat Dec 30 00:09:12 1995  
Date: Fri, 29 Dec 95 14:47:39 EST  
From: schiers@ibm.net (hasan schiers)  
Reply-To: schiers@ibm.net (hasan schiers)  
To: aprssig@tapr.org  
X-Mailer: hasan schiers's PMMail v1.1  
Subject: Re: [APRSSIG:5571] The results of Wx investigation are in.

On Thu, 28 Dec 1995 11:45:11 -0600 (CST) you wrote:

>I spoke via LL to ARRL Norm Bliss, who is responsible to  
>regulatory issues there.

>But, if the tones cause me to change the timing of the beacon,  
>(in otherwords step up the time to more frequently or immediate)  
>then it's NOT legal.

>

Don't be so quick to abandon your idea because one person, even a highly placed and allegedly "informed" person tells you that it is THEIR interpretation that your idea is illegal.

We went through the same bull with someone at the ARRL pronouncing FBB compressed packet forwarding illegal. Turns out, he was wrong, and only succeeded in screwing up our network forwarding system for a few months.

Their are two considerations:

1. The emergency exception, which may or may not apply.
2. What does "transmits because" mean?

Does the tone actually cause the transmission, or does the tone inform a program of an event and then the program makes a decision to transmit or not to transmit? Sometimes it doesn't hurt to mince words. Rules always tend to lag technology and innovation. The FCC has bent considerably in the past, pending new rules.

Don't give up so easily, just because one bureaucrat has issued an OPINION as to what HE INTERPRETS the regulations to mean.

We successfully fought an FCC Engineer in Charge on one of this issues.

So if you are really interested in the project, persevere.

>Therefore, development on this project is now over.  
>I will provide the text of the ARRL response to the sig when I get it  
>(should be later today)

>

>Id like to thank those of you who alerted me to the potential of  
>violating FCC rules and appreciate the help from all.

>73 Mike

>KD4EMI@AOL.COM

>

>

>

robert "hasan" schiers

Ham Radio Packet: n0an@n0an.ia.usa.noam

From n2czf@gate.net Fri Dec 29 20:06:44 1995

Received: from osceola.gate.net (osceola.gate.net [199.227.0.18]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id UAA09291 for <aprssig@tapir.org>; Fri, 29 Dec 1995 20:06:41 -0600 (CST)

From: n2czf@gate.net

Received: from 199.227.125.168 (wpbf12-40.gate.net [199.227.125.168]) by

osceola.gate.net (8.6.12/8.6.9) with SMTP id VAA16712; Fri, 29 Dec 1995 21:07:46 -0500  
Date: Fri, 29 Dec 1995 21:07:46 -0500  
Message-Id: <199512300207.VAA16712@osceola.gate.net>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
Subject: Anyone use a 2port Pico and Meridian ?  
To: aprssig@tapr.org  
Cc: kc4hdk@gate.net  
X-Mailer: SPRY Mail Version: 04.00.06.17

Does anyone out there use a Dual Port Pico Packet and a Magellan Meridian GPS ?  
Would like to stay intouch with someone who currently uses these two units together to try to figure out some occasional "complications" we encounter. At work we have 3 dual port picos with 2 Meridians and 1 Garmin GPS-50. I have never had any problems using the Garmin so we are really confused. We have been trying to get everything to work 100% of the time since September now when we started with the single port version, but have run into various problems.

73's De Rich N2CZF  
n2czf@gate.net  
Jupiter Farms Florida

From schiers@ibm.net Fri Dec 29 20:24:57 1995  
Received: from smtp-gw01.ny.us.ibm.net ([165.87.194.252]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id UAA09720 for <aprssig@tapr.org>; Fri, 29 Dec 1995 20:24:53 -0600 (CST)  
Received: (from uucp@localhost) by smtp-gw01.ny.us.ibm.net (8.6.9/8.6.9) id CAA01810 for < aprssig@tapr.org>; Sat, 30 Dec 1995 02:24:50 GMT  
Message-Id: <199512300224.CAA01810@smtp-gw01.ny.us.ibm.net>  
Received: from slip230-76.mo.us.ibm.net(129.37.230.76) by smtp-gw01.ny.us.ibm.net via smap (V1.3mjr)  
id smaL%wDFW; Sat Dec 30 02:24:37 1995  
Date: Sat, 30 Dec 95 02:16:22 EST  
From: schiers@ibm.net (hasan schiers)  
Reply-To: schiers@ibm.net (hasan schiers)  
To: aprssig@tapr.org  
X-Mailer: hasan schiers's PMMail v1.1  
Subject: Win32s Upgrade for Win 3.1x

If you are running Win95 or WinNT, you do not need this file or info, as 32 bit mode is built in.

As mentioned on the Web page for WinAPRS, those of us running Windows 3.1x require the 32 bit subsystem referred to as Win32s installed in order to run the WinAPRS which is in beta testing now and is scheduled for release at Dayton.

I thought I would share my experience in getting the required file and installing on a system with no previous versions of Win32s installed.

The file name: OLE32S13.EXE (also get the readme.txt file in the same dir)

Where to get the file: ftp site is ftp.ncsa.uiuc.edu

The directory is: /Mosaic/Windows/Win31x/Win32s

The file is VERY LARGE at 3.07 megabytes. It is a self-extracting file that will set up disk images as directories. I had to use a utility called Pcopy in order to split it onto 3 diskettes to move it to the right machine (and of course to combine it after the split).

What follows is an annotated copy of the readme file that tells you how to go about either upgrading to version 1.30 of Win32s, or installing 1.30 on a system (like mine) that had not had Win32s previously installed.

----- READ ME file begins here:

This directory contains Win32s with OLE v1.30a (1.30.166) and the address book DLL (AB.DLL) for Microsoft Mail. Win32s v1.30a is the latest and greatest version of Win32s. We recommend all Mosaic users upgrade to this version. When upgrading Win32s, we recommend you remove the old version of Win32s(v1.25a) and install v1.30a from scratch.

N.B. comments about Mosaic have nothing to do with WinAPRS, so don't\panic.

If you are a Microsoft Mail user, we also recommend you upgrade the AB.DLL in your /windows/system directory. The updated AB.DLL was supplied by Microsoft.

N.B. AB.DLL is not needed for WinAPRS

Below are instructions for removing and installing Win32s.

-----  
N.B. If you have never installed Win32s on your system, skip to the next section: Installing Win32s 1.30

Removing Win32s:  
-----

The following steps can be taken to remove Win32s v1.25a from your Windows 3.1x or Windows for Workgroups 3.1x environment.

1. Remove the following line from the [386Enh] section of your system.ini file. The sysedit.exe application in you /windows/system directory will open an ascii editor to all your system files.

device=C:\WINDOWS\SYSTEM\WIN32S\W32S.386



2. Modify the following line from the [BOOT] section in the SYSTEM.INI file:  
    drivers=mmsystem.dll winmm16.dll  
    to the following (remove winmm16.dll):  
    drivers=mmsystem.dll
3. Delete the following files from your c:\windows\system subdirectory or from the SYSTEM directory in network installations:  
    W32SYS.DLL  
    WIN32S16.DLL  
    WIN32S.INI
4. Delete all files in the c:\windows\system\win32s subdirectory.
5. Delete the c:\windows\system\win32s directory
6. Reboot your machine.

Your system is now Win32s free. You will not be able to run Win32 applications.

#### Installing Win32s v1.30

-----

1. Download OLE32S13.EXE (3,072,788 Bytes) into a temporary directory. (ie. c:\install)
2. With the File Manager open the temporary directory. (where you placed your downloaded file OLE32S13.EXE)
3. Double click on OLE32S13.EXE (it will extract the files)
4. Double click on Install.bat (it will try to install, but for me failed, which was obvious in that no Win32s setup program appeared)
5. Follow the instructions from the setup program. (Be sure to let it install the game FreeCell, as running it will tell you if your install has been successful)

Win32s v1.30 is now installed and you will be able to run Win32 applications.

N.B. This procedure did not quite work right. Step 3 above extracted the archive and created the disk images in the proper directories. Install.bat, however, did not work properly, as it never put me into the Win32s setup program. I resolved this by restarting windows, opening up the file manager changing to the .\disk1 directory and executing setup.exe from the file manager in that directory.

What worked for me was to follow the directions as listed and then restart windows, open the file manager, change to the .\disk1 directory and execute setup.exe by double clicking on it. From there on it was a snap following the prompts of the Win32s installation setup screen.

This brought up the Win32 setup screen, and successfully installed Win32s ver 1.30, and installed the game freecell to test it. All went fine, and I was prompted to add share.exe to my autoexec.bat.

Now it is wait for a beta copy of WinAprs (if I get sent one), or for the first release due out around Dayton time.

I hope this will help someone who is worried about what is involved with the upgrade. It went very smoothly, once I figured out how to move a 3.07 mega-byte file from one machine to the other, and I worked around the flaw in the install program. 73,

robert "hasan" schiers  
Ham Radio Packet: n0an@n0an.ia.usa.noam

From bruninga@nadn.navy.mil Fri Dec 29 21:00:28 1995  
Received: from greatlakes.nadn.navy.mil (greatlakes.nadn.navy.mil [131.121.9.4])  
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id VAA10612 for <aprssig@tapir.org>; Fri,  
29 Dec 1995 21:00:26 -0600 (CST)  
Received: (from bruninga@localhost) by greatlakes.nadn.navy.mil (8.6.12/8.6.12) id  
WAA16921; Fri, 29 Dec 1995 22:00:51 -0500  
Date: Fri, 29 Dec 1995 22:00:50 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
To: aprssig@tapir.org  
Subject: Re: [APRSSIG:5582] Ultimeter 2000 Remote Problems  
In-Reply-To: <30E425AB.6CDB@mec7804a.dukepower.com>  
Message-ID: <Pine.SUN.3.91.951229215822.16916A-100000@greatlakes>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 29 Dec 1995, John D. Snoddy wrote:

> Has anyone be able to get the U-2000 operating in the Remote Mode with  
> Versions 74x of APRS? I connected my U-2000 to my TNC that is currently  
>  
> \$ULTW000000000008F000027DE0002CEBA0001036601670447

WB4APR REPLY COMMENT:

Looks like I got some work to do in January! Sorry, it worked for me...  
but I guess I have to dig deeper....

PS. John, I saw ur SSP-1 as I drove thru NC. In the whole state I only saw  
you and the MMB-9 digi.... Hang in there....

From bruninga@nadm.navy.mil Fri Dec 29 21:03:58 1995  
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])  
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id VAA10946 for <aprssig@tapr.org>; Fri,  
29 Dec 1995 21:03:54 -0600 (CST)  
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id  
WAA16927; Fri, 29 Dec 1995 22:04:20 -0500  
Date: Fri, 29 Dec 1995 22:04:19 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
To: aprssig@tapr.org  
Subject: Re: [APRSSIG:5585] Space Mode & Dual -port TNC  
In-Reply-To: <091.07561902.MBTD87A@prodigy.com>  
Message-ID: <Pine.SUN.3.91.951229220217.16916B-100000@greatlakes>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 29 Dec 1995, MR MICHAEL R HESKETT wrote:

> Does anyone have any experience with with Space mode automatically  
> triggering on a dual-port TNC. In my case a KPC-4 (2 VHFports).

WB4APR REPLY COMMENT:

ANY mechanism that allows APRS to see its OWN packet will trigger the  
SUCCESS message. It can be audio loop back, or some TNC command that  
lets the TNC echo its own transmitted packets... Look at the VIEW screen  
and if you see your packets, then you have a problem....

From rwf@mindspring.com Sat Dec 30 08:41:47 1995  
Received: from borg.mindspring.com (root@borg.mindspring.com [204.180.128.14]) by  
sys1.tapr.org (8.7.2/8.7.2) with SMTP id IAA03705 for <aprssig@tapr.org>; Sat, 30  
Dec 1995 08:41:45 -0600 (CST)  
Received: from rwf.mindspring.com [168.121.44.154] by borg.mindspring.com  
with SMTP id JAA17135 for <aprssig@tapr.org>; Sat, 30 Dec 1995 09:41:38 -0500  
Date: Sat, 30 Dec 1995 09:41:38 -0500  
Message-Id: <2.2.16.19951230094813.37b77a10@mindspring.com>  
X-Sender: rwf@mindspring.com  
X-Mailer: Windows Eudora Pro Version 2.2 (16)  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: aprssig@tapr.org  
From: rwf <rwf@mindspring.com>  
Subject: Re: [APRSSIG:5587] More lessons learned

At 05:58 PM 12/29/95 -0600, Dr. Bob wrote:  
>When ever I travel with APRS I usually find some things to change. This  
>time, only one thing came up. THOSE REDICULUOUS PHG-RINGS!  
>  
>You wouldn't believe some of the rings I saw in the southeast  
>

hehehe- Bill are you lurking?

>Here is where I can change it a little bit.

>

For my next version ..... snip This way you will see the RECEIVE range of all other stations

>and the TRANSMIT range of your own. If the circles overlap, then you >will be tracked...

Sounds good!

>

>I spent my entire vacation in Atlanta, only 8 miles from a WIDE. My >terrain was about average, and after trying the attic, roof, and then a >line into the top of a 40 foot tree, I still could NOT even HEAR the WIDE >at all. I finally got out via another home station, but without hearing >a WIDE, I could not see any more than 1 to three neighbors. The WIDE PHG >ring, of course went FAR beyond my location...

Haven't talked to the owner yet, he's been off APRS for 2 wks (home station not visible)-

but N4YCI drove \*righr by it\* and still could not get it to digi.

Wonder if it is a Non-Digi right now.

Ralph

From gerry@cs.tamu.edu Sat Dec 30 09:59:17 1995

Received: from cs.tamu.edu (clavin.cs.tamu.edu [128.194.130.106]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id JAA06017 for <aprssig@tapir.org>; Sat, 30 Dec 1995

09:59:14 -0600 (CST)

Received: from solar.cs.tamu.edu (2961@solar.cs.tamu.edu [128.194.132.1]) by cs.tamu.edu (8.6.10/8.6.4) with ESMTP id JAA06819 for <aprssig@tapir.org>; Sat, 30 Dec 1995 09:58:29 -0600

From: Gerald J Creager <gerry@cs.tamu.edu>

Received: (gerry@localhost) by solar.cs.tamu.edu (8.6.10/8.6.4) id JAA26268 for aprssig@tapir.org; Sat, 30 Dec 1995 09:58:25 -0600

Message-Id: <199512301558.JAA26268@solar.cs.tamu.edu>

Subject: Re: [APRSSIG:5449] Re: Error Ellips

To: aprssig@tapir.org

Date: Sat, 30 Dec 1995 09:58:24 -0600 (CST)

In-Reply-To: <9512211548.AA29867@omnifest.uwm.edu> from "David W. Barrow III" at Dec 21, 95 10:05:28 am

X-Mailer: ELM [version 2.4 PL24]

Content-Type: text

David W. Barrow III sez:

>

> Does LoranC have similiar inaccuracy built in?

Yes. Period. But not by "diddling." Because of the nature of the

multi-station triangulation methods employed by LORAN-C, the wavelength, and the fact that \_most\_ of the stations are located next to extensive bodies of water, there's significant common mode error inherent in the system. While you can get 100-200 meter accuracies with LORAN-C (post-processed) that's what we're already seeing with GPS with SA on.

> Do I understand that Europeans are staying with LoranC to avoid  
> the US's "fiddle factor"?

A number of the European Community nations are already implementing nationwide DGPS systems (public) or satellite-based wide area augmentation systems (similar to the FAA's proposed methods). The European air traffic control system embraced GPS without correction for enroute navigation a couple of years before the US did. Some folks now are going to a combination of GPS and GLONASS (the Russian version) to compare results and enhance accuracy.

> Thanks VERY MUCH for educating the rest of us.

Ciao,  
Gerry

From dvelez@norfolk.infi.net Sat Dec 30 10:46:40 1995  
Received: from moe.infi.net (moe.infi.net [198.22.1.119]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id KAA07367 for <aprssig@tapir.org>; Sat, 30 Dec 1995 10:46:35 -0600 (CST)  
Received: from dvelez.infi.net by moe.infi.net with SMTP (Infinet-S-3.3) id LAA29288; Sat, 30 Dec 1995 11:46:27 -0500  
Date: Sat, 30 Dec 1995 11:46:27 -0500  
Message-Id: <199512301646.LAA29288@moe.infi.net>  
X-Sender: dvelez@norfolk.infi.net  
X-Mailer: Windows Eudora Light Version 1.5.2  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: aprssig@tapir.org  
From: Daniel Velez <dvelez@norfolk.infi.net>  
Subject: Re: [APRSSIG:5588] Re: The results of Wx investigation are in.

I've been chatting with a friend, KC40CG, about this... he's implemented a system for voice repeaters that retransmits a minute or so of the NWS audio after a tone...read on for background on the equipment (which is similar to our APRS application) and his comments on the current discussion:

=====  
THE EQUIPMENT From W5YI article (edited for brevity):

AMATEUR PATENTS NEW WEATHER RADIO RECEIVER  
Designed for Failure Situations, Stores Weather Warnings

Virginia emergency authorities convened a meeting in 1993 after devastating tornadoes swept through several communities in the state. Local emergency managers had not known about tornado warnings sent by the National Weather Service (NWS) until after they had started to respond to damage caused by the storms. They were desperate for a better link between the NWS and local authorities.

After two years of experimenting in his garage, Gropper has received a patent for the technology used in Weather Eagle 100, a NOAA Weather Radio scanner with sophisticated capabilities. The receiver is designed for use by emergency managers, police and fire departments as well as for use in public buildings such as churches, schools, shopping malls and theaters.

KC40CG studied the NWS NOAA Weather Radio system, which broadcasts tone-alert warnings and forecasts in the 162.4-162.55 MHz band from more than 400 transmitters across the country. Canada is protected by a similar system on the same channels. Though usually effective, NOAA Weather Radio is prone to breakdowns and "dead" carriers with no audio, he discovered.

A method had to be invented to switch a receiver to another Weather Radio channel if the carrier drops or if the carrier stays on with no sound. From analysis of 60 hours of transmissions, he designed signal processing technology optimized for Weather Radio. The receiver seeks the best of the seven possible channels, rescanning for the strongest signal once per minute. If the best frequency loses audio, it switches to the next best channel if one is available.

Another problem was that existing receivers and scanners had no way of storing warnings for later playback or broadcast. Gropper found that in many cases, warnings were broadcast, but officials were not present to hear them - sometimes with tragic consequences.

His receiver detects the weather alert tone, records the official alert broadcast in solid-state memory, time-and-date stamps the recording, and keys audible and/or visual alarms. It can retransmit the warning over public address loudspeakers, mobile radio systems and repeaters. "If the firemen want to replay the warning or hear one minute of live weather they press a DTMF speed dial key on their radio in the fire truck," Gropper told us. "That sends a signal back to our radio in the firehouse, which responds back over the fire channel with either message. They love it. It worked 10 times during tornadoes we had on October 5 in the Virginia Tidewater area."

"We had to add helical filters and a Gasfet preamp to allow the radio to survive reasonably high RF environments. It includes all of the controls to interface with a repeater, including a busy input to shut up the weather radio when there is an input on the repeater, and tone-detect logic to trip other alarms and macros when the warning comes in." If the repeater is busy, and a warning is received, the Weather Eagle will transmit eight beeps over the air to alert repeater users that a warning has been issued.

"I can envision this radio being in the studios of many radio stations in the midwest and southeast. It has the built-in ability to play (and replay) the digitally-recorded warning into an audio output as needed, so the DJ can make the announcement of a weather warning and the engineer can press the button instead of messing around with rereading

the text or trying to tape the warning for replay."

Federal officials have announced plans to expand the use and coverage of NOAA Weather Radio. "Special emphasis will be placed on getting these radios installed in public gathering places so they will be as common as smoke detectors," Vice President Al Gore stated.

"Together with the Federal Emergency Management Agency, the Department of Agriculture, and the U.S. Geological Survey, NOAA Weather Radio will soon be transformed into an 'all hazards' radio network, making it the single source for the most comprehensive weather and emergency information available for all citizens," according to the NWS.

For his support of SKYWARN, KC40CG and his fellow ham volunteers received awards from Dr. "Joe" Friday, NWS Director (May 1994 QST, pg. 95). Dan looks forward to another achievement, he says: saving lives by getting severe weather warnings to public safety officials and citizens.

In fact, the awards ceremony in Washington was cut short - by a real SKYWARN activation for severe thunderstorms!

The Weather Eagle 100 Weather Radio Scanner, Recorder and Communications Interface lists for \$595.00 from Thunder Eagle, Inc., PO Box 625, Vienna VA 22183, 703 242 0122, thuneagle@aol.com.

=====  
KC40CG comments on my question about who is controlling the transmission:  
"Ah Yes!

That is a closer question, of technically who theoretically causes an amateur radio transmitter to transmit!

I am not the FCC, but here are my opinions. Take them for what they are worth??

The ultimate control person responsible for the transmission is the amateur radio licensee. Therefore there is a ham involved and responsible for the transmission, which is (in my opinion) the main intent of the FCC rules on this point.

The FCC, in the same Report and Order, stated their goal for flexibility in amateur radio communications by stating, "...we will rely on the amateur service's traditions of self-regulation and cooperation between licensees, the cornerstones of the amateur service, to determine whether specific communications should be transmitted on amateur service frequencies."

I treat the occurrence of an NWS alert tone the same as an automatic repeater site break in alarm, power failure alarm, temperature announcement, and club voice announcement, all of which are regularly automatically transmitted on amateur radio frequencies. In each instance the licensee has chosen to lend his license to the repeater controller to automatically transmit the detection of a changed condition.

In the NWS alert case, the licensee has chosen to detect the occurrence of a changed condition, that of the issuance of a potentially life saving alarm originated by a federal government entity, NWS, and transmitted on an official government frequency, NOAA Weather Radio, with the intent by the government to alert the public of the occurrence of potentially life and property threatening severe weather.

The FCC permits the retransmission of NOAA weather radio on private land mobile and emergency management frequencies. The FCC specifically permits the transmission of NOAA Weather Radio on Amateur Frequencies. The new FCC Emergency Alerting System (formerly Emergency Broadcast System) will retransmit NOAA Weather Radio. Vice President Al Gore has stated that "Special emphasis will be placed on getting these radios installed in public gathering places so they will be as common as smoke detectors." Therefore, the FCC and the federal government clearly understand the importance of NOAA Weather Radio and will likely support the integration of NOAA Weather Radio's automated alarm features into other communications systems, such as amateur radio.

Your earlier email had it correctly. When you may have seconds to get out of the way of a tornado, a warning ten minutes later will likely be way to late to be of any value.

Therefore, in my view, it is the amateur licensee who is originating the NWS alert transmission on amateur radio frequencies. It would be different if the NWS connected the two systems together, which they are not doing. All they are doing is issuing weather alerts. It is the amateur who is detecting the issuance of the alert and is causing the amateur radio transmitter to be keyed. It is the amateur who shuts down the retransmission if it malfunctions, not the NWS. It is the amateur who is responsible if the NWS alarm interferes with communication on the amateur frequencies, not the NWS.

So, I think such retransmission of NWS alerts is perfectly fine and should be accomplished in every possible manner. This is clearly based on the principals of amateur radio. Rule 97.1(a) states, "Recognition and enhancement of the value of amateur service to the public as a voluntary non commercial communication service, particularly with respect to providing emergency communications." I feel that the automatic retransmission of NOAA Weather Radio alerts to amateurs, and to the many people listening in on ham frequencies, is clearly a public service within the spirit and intent of the FCC rules."

=====

A good argument.....

73 de Dan

-----  
Dan Velez  
dvelez@infi.net  
n4wzr@wd4miz.va.usa.noam  
-----

A00000GA! A00000GA!  
DIVE! DIVE! DIVE!  
"Shimmin' out!"  
-----



From n2iph@MCI.NEWS CORP.COM Sat Dec 30 11:29:58 1995  
Received: from kafka-s2.delphi.com (root@kafka-s2.delphi.com [206.15.105.75]) by sys1.tapir.org (8.7.2/8.7.2) with ESMTP id LAA09048 for <aprssig@tapir.org>; Sat, 30 Dec 1995 11:29:56 -0600 (CST)  
Received: from N2IPH2 (slip109-69.bb.delphi.com [206.15.109.69]) by kafka-s2.delphi.com (8.7.1/8.7.2/SMTP GW 1.1) with SMTP id MAA04020 for <aprssig@tapir.org>; Sat, 30 Dec 1995 12:26:28 -0500 (EST)  
Date: Sat, 30 Dec 1995 12:26:28 -0500 (EST)  
Message-Id: <199512301726.MAA04020@kafka-s2.delphi.com>  
X-Sender: n2iph@pop.mci.newscorp.com  
X-Mailer: Windows Mail Version 2.1.2  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: aprssig@tapir.org  
From: BOB DERDERIAN <n2iph@MCI.NEWS CORP.COM>  
Subject: Wx Alerting

Perhaps an STA to specific stations in each region could be granted by the FCC if it could be shown that this capability would be beneficial to the general public and/or emergency service agencies, as was done with HF automatic digital messaging in the past.

APR query: Bob, is it possible to add a module of code to switch a multi-mode TNC from one mode to another? i.e. - for instance a MFJ-1278 with one radio port connected to HF and the other to VHF. For the 1278 only one mode can be active at a time. the commands to switch from VHF to HF are pretty simple and can be placed in a macro (which is how I do it here) using the MODE command from the cmd: prompt of the TNC. This would allow a station to monitor both nets by periodically switching from one TNC port to the other. Has other possibilities also.

General comment to all: I like the idea of Keith's of limiting bulls to 24hr MAX. I am tired of seeing my bulletin screen filled up with the same stuff day after day. Though a good operator would not need to have this limitation built into the program, 'cause he would be responsible enough to kill his bull after a reasonable period of time! Apparently we do not have considerate ops on the net though, so it looks like this may become a necessity.

Happy New Year everyone!

Try WebPhone, it's pretty neat!

73, Bob

NNNN

From gerry@cs.tamu.edu Sat Dec 30 11:58:35 1995  
Received: from cs.tamu.edu (clavin.cs.tamu.edu [128.194.130.106]) by sys1.tapir.org (8.7.2/8.7.2) with SMTP id LAA10349 for <aprssig@tapir.org>; Sat, 30 Dec 1995 11:58:33 -0600 (CST)  
Received: from solar.cs.tamu.edu (2961@solar.cs.tamu.edu [128.194.132.1]) by cs.tamu.edu (8.6.10/8.6.4) with ESMTP id LAA08041 for <aprssig@tapir.org>; Sat, 30

Dec 1995 11:57:47 -0600

From: Gerald J Creager <gerry@cs.tamu.edu>

Received: (gerry@localhost) by solar.cs.tamu.edu (8.6.10/8.6.4) id LAA27357 for aprssig@tapr.org; Sat, 30 Dec 1995 11:57:44 -0600

Message-Id: <199512301757.LAA27357@solar.cs.tamu.edu>

Subject: Re: [APRSSIG:5567] Rain Gauge + U2000

To: aprssig@tapr.org

Date: Sat, 30 Dec 1995 11:57:43 -0600 (CST)

In-Reply-To: <2.2b10.32.19951228152916.006eaca8@144.188.134.33> from "Paul Moller" at Dec 28, 95 09:33:43 am

X-Mailer: ELM [version 2.4 PL24]

Content-Type: text

Paul Moller sez:

>

> Conclusion: Go ahead and use your brand X rain gauge by connecting it in  
> correctly, or maybe make your own!

Since the tipping bucket is a simple and standard concept it should work from unit to unit, reasonably well... However, in trying to make your own, there's some degree of precision required. most tipping buckets are on the order of .01 inches of rainfall, and require that the lever be well balance as well as requiring that the buckets are of similar (small) volume.

73, gerry

From hwm@netcom.com Sat Dec 30 12:25:29 1995

Received: from netcom7.netcom.com (hwm@netcom7.netcom.com [192.100.81.115]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id MAA11449 for <aprssig@tapr.org>; Sat, 30 Dec 1995 12:25:25 -0600 (CST)

Received: by netcom7.netcom.com (8.6.12/Netcom)

id KAA22938; Sat, 30 Dec 1995 10:21:59 -0800

Date: Sat, 30 Dec 1995 10:21:59 -0800

From: hwm@netcom.com (heather martin)

Message-Id: <199512301821.KAA22938@netcom7.netcom.com>

To: aprssig@tapr.org

Subject: Re:ErrorEllips

Actually its not over water paths but delay over land paths that degrade loran-c accuracy. While loran does not have the absolute accuracy of gps, it will usually allow a user to return to a given point closer than non-differential gps. Using both loran-c and gps but I never assume that either has more than 1/4 mile accuracy especially if they do not agree.

Bob - wd6dod

skipper "Stormy Petrel"

From MBTD87A@prodigy.com Sat Dec 30 12:58:05 1995

Received: from pimaia2w.prodigy.com (pimaia2w.prodigy.com [192.207.105.46]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id MAA12864 for <aprssig@tapr.org>; Sat, 30 Dec 1995 12:58:02 -0600 (CST)

Received: from mailinb1.prodigy.com (tinahost [199.4.137.91]) by

pimaia2w.prodigy.com (8.6.10/8.6.9) with SMTP id NAA68556 for <aprssig@tapr.org>;  
Sat, 30 Dec 1995 13:57:39 -0500  
Date: Sat, 30 Dec 1995 13:57:29 EST  
From: MBTD87A@prodigy.com (MR MICHAEL R HESKETT)  
X-Mailer: PRODIGY Services Company Internet mailer [PIM 3.2-334.50]  
Message-Id: <091.07611191.MBTD87A@prodigy.com>  
To: aprssig@tapr.org  
Subject: re:Space Mode & Dual-Port TNC

-- [ From: Mike Heskett \* EMC.Ver #2.10P ] --

Thanks Bob and James for the replies.

I may not have explained the problem correctly.

The problem is that APRS, in Space mode, does not automatically transmit when messages are received from the spacecraft id (R0MIR, in this case - or any other in testing) for my dual port KPC-4. It works fine on a single port TNC. I have defined my TNC as a KAM and as TAPR, with no difference. I have tested on both ports - no difference.

I know that UNPROTO is set correct because I can manually force transmissions with X B, and I have seen my packet digipeated from R0MIR.

It is as (but not necessarily) if APRS is not getting a match in the id of the spacecraft and what it is comparing against. I don't know how that comparison is tested but I can see how it might not work. If it is programmed to look at the return from a UNPROTO command and takes the characters after the "VIA " until the next space for my KPC-4 it would set the following as the id it would compare for:

R0MIR/EM12JU

or some other non-blank characters after the "/" because an UNPROTO command on my TNC returns both ports :

UNPROTO EM12JU VIA R0MIR/EM12JU VIA R0MIR

I have had a little trouble getting the Unproto set right. It works better if I enter space mode first then set the spacecraft id with the U command. Some of the docs mentions setting U first. I don't think that makes a difference, because I have tried it both ways, but it might. When I set the U first then enter Space mode, sometimes the via goes back to RELAY.

Thanks again:  
Mike  
WB5QLD

From KD4EMI@aol.com Sat Dec 30 13:21:35 1995  
Received: from emout05.mail.aol.com (emout05.mail.aol.com [198.81.10.37]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id NAA13821 for <aprssig@tapr.org>; Sat, 30

Dec 1995 13:21:32 -0600 (CST)  
From: KD4EMI@aol.com  
Received: by emout05.mail.aol.com (8.6.12/8.6.12) id OAA14334 for  
aprssig@tapr.org; Sat, 30 Dec 1995 14:21:00 -0500  
Date: Sat, 30 Dec 1995 14:21:00 -0500  
Message-ID: <951230142058\_27380611@emout05.mail.aol.com>  
To: aprssig@tapr.org  
Subject: Wx

I have been following the wx discussions both pro and con.

Also, Ive taken the liberty of fwding the msgs to arrl.  
They could ask the fcc for a "ruling" I suppose.

But then the question remain,  
How is this better than a regular Wx alert radio...?  
If you are really concerned abt the wx, carry one !

Although the idea is a neat one, interfacing computer stamps and  
radios and the like, I think that adding a step into the system induces  
another chance of error. The other option is to have a wx radar or something  
like that at home (we have a guy down here with one)  
that senses bad wx (tornado's too ?) and then GENERATES the alert.  
Problem there is causing a panic...Would not be an official alert.  
Another option is to have a HAM at the NWS generate an alert  
for the APRS group.

We have a station at NWS running aprs, but not sure who is responsible  
for it...!

So, Im playing around with building something else that we can play with.  
Frankly, I would not mind a cheaper peet bros type wx device.

It slays me to pay over 300 bucks for a wx station...

Perhaps I could work on that.. We'll see....

Again, even if the FCC sent me a letter saying DO IT !

I still think it adds another level of chaos into a system that could  
potentially not work. I would be devistated if people relied on this for wx  
warning and it failed.

I'll keep trying to figure some way of automating something at NWS that  
I can link to the ham bands. Of course any ideas are invited.

73 MIke KD4EMI  
KD4EMI@AOL.COM

From MBTD87A@prodigy.com Sat Dec 30 14:41:03 1995  
Received: from pimaia2w.prodigy.com (pimaia2w.prodigy.com [192.207.105.46]) by  
sys1.tapr.org (8.7.2/8.7.2) with SMTP id OAA16396 for <aprssig@tapr.org>; Sat, 30  
Dec 1995 14:40:58 -0600 (CST)  
Received: from mail.prodigy.com (mail.prodigy.com [199.4.137.13]) by  
pimaia2w.prodigy.com (8.6.10/8.6.9) with SMTP id PAA34132 for <aprssig@tapr.org>;  
Sat, 30 Dec 1995 15:40:45 -0500  
Date: Sat, 30 Dec 1995 15:40:34 EST  
From: MBTD87A@prodigy.com (MR MICHAEL R HESKETT)  
X-Mailer: PRODIGY Services Company Internet mailer [PIM 3.2-334.50]  
Message-Id: <013.07615651.MBTD87A@prodigy.com>  
To: aprssig@tapr.org

Subject: Space Mode & Dual-Port TNC

-- [ From: Mike Heskett \* EMC.Ver #2.10P ] --

Bob (and others):

I think I found something that works. It does seem to require the path to be set before entering space mode. For this dual port to work, I have to enter the digi path in the saved paths and then set it with the O D commands, enter space mode and all is OK. If I set the path via the U command and then enter space mode, for some reason my path gets reset to what it was previously (but different).

It is like there is a save area somewhere that it goes back to.

Thanks again

Mike - WB5QLD

From rwilkins@uhf.org Sat Dec 30 15:38:02 1995

Received: from ccnet.ccnet.com (root@ccnet.ccnet.com [192.215.96.2]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id PAA18667 for <aprssig@tapr.org>; Sat, 30 Dec 1995 15:37:58 -0600 (CST)

Received: from ccnet3 (rwilkins@ccnet3.ccnet.com [192.215.96.11]) by ccnet.ccnet.com (8.6.12/8.6.12) with SMTP id NAA24099 for <aprssig@tapr.org>; Sat, 30 Dec 1995 13:33:43 -0800

Date: Sat, 30 Dec 1995 13:35:37 -0800 (PST)

From: Bob Wilkins n6fri <rwilkins@uhf.org>

X-Sender: rwilkins@ccnet3

To: aprssig@tapr.org

Subject: Re: [APRSSIG:5596] Wx Alerting

In-Reply-To: <199512301726.MAA04020@kafka-s2.delphi.com>

Message-ID: <Pine.SUN.3.91.951230132602.28370D-1000000@ccnet3>

X-URL: <http://www.ccnet.com/~rwilkins/>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sat, 30 Dec 1995, BOB DERDERIAN wrote:

> General comment to all: I like the idea of Keith's of limiting bulls to 24hr  
> MAX. I am tired of seeing my bulletin screen filled up with the same stuff  
> day after day. Though a good operator would not need to have this limitation  
> built into the program, 'cause he would be responsible enough to kill his  
> bull after a reasonable period of time! Apparently we do not have  
> considerate ops on the net though, so it looks like this may become a  
> necessity.

Maybe at some time in the future code could be written to make the bulletin behave more like navtext. Once you see a bulliten thats it, one time only on your screen. They could be saved to a bull file for review. Maybe you could delete particular bulls from that file, if they were of no use. I hate erasing the bulls only to have the computer beep again in an hour with the same bull!

Maybe an initial time stamp could identify them?

Thanks,

Bob     n6fri

Bob Wilkins	home	n6fri@uhf.org
Berkeley, California	work	bwilkins@cave.org
94712-2354	play	n6fri@n6eeg.#nocal.ca.usa.noam

From wricharz@ix.netcom.com Sat Dec 30 20:24:44 1995  
Received: from ix7.ix.netcom.com (ix7.ix.netcom.com [199.182.120.7]) by  
sys1.tapir.org (8.7.2/8.7.2) with SMTP id UAA26827 for <aprssig@tapir.org>; Sat, 30  
Dec 1995 20:24:41 -0600 (CST)  
Received: from ix-cha-nc4-14.ix.netcom.com by ix7.ix.netcom.com (8.6.12/SMI-4.1/  
Netcom)  
id SAA08994; Sat, 30 Dec 1995 18:23:51 -0800  
Message-Id: <199512310223.SAA08994@ix7.ix.netcom.com>  
X-Sender: wricharz@ix.netcom.com  
X-Mailer: Windows Eudora Light Version 1.5.2  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Sat, 30 Dec 1995 21:23:03 -0500  
To: aprssig@tapir.org  
From: William Richarz <wricharz@ix.netcom.com>  
Subject: MFJ-8621 Crystals

Anyone out there have problems getting MFJ-8621 receive xtals for 145.79?  
This is the second one I have received from MFJ, and neither will adjust to  
the correct frequency, close but no cigar. Best I can do with the slug  
tuned all-the-way-out, is about 145.785 & I copy strong 145.77 stations, so  
guess the radio is broad as a barndoor too. Just wondering if MFJ has a bad  
batch of xtals on 145.79 receive? MFJ advises connecting Freq. Counter to  
pin 3 of the  
receiver chip and adjusting for 135.090 Mhz. for accurate tuning, but best I  
can do is 135.0867, a bit low. I would think I should do better than this.

Thanks for any replys.

```
=====
Bill Richarz <WA4VAF>           | Internet: wricharz@ix.netcom.com
10035 Little Creek Rd.         | Packet  : WA4VAF@W4BFB.CLT.NC.USA.NA
Charlotte, NC 28227            | Phone   : (704) 545-9368
=====
```

From jrholley@bright.net Sat Dec 30 20:30:57 1995  
Received: from brutus.bright.net (root@brutus.bright.net [205.212.123.10]) by  
sys1.tapir.org (8.7.2/8.7.2) with SMTP id UAA26915 for <aprssig@tapir.org>; Sat, 30  
Dec 1995 20:30:53 -0600 (CST)  
Received: from defil-cs-5.dial.bright.net (defil-cs-5.dial.bright.net

[205.212.119.105]) by brutus.bright.net (8.6.10/8.6.9) with SMTP id VAA26006 for <aprssig@tapr.org>; Sat, 30 Dec 1995 21:24:57 -0500  
Date: Sat, 30 Dec 1995 21:24:57 -0500  
Message-Id: <199512310224.VAA26006@brutus.bright.net>  
X-Sender: jrholley@brutus.bright.net  
X-Mailer: Windows Eudora Version 1.4.3  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: aprssig@tapr.org  
From: jrholley@bright.net (Jim Holley)  
Subject: Re: [APRSSIG:5593] Re: More lessons learned

>At 05:58 PM 12/29/95 -0600, Dr. Bob wrote:  
>>When ever I travel with APRS I usually find some things to change. This  
>>time, only one thing came up. THOSE REDICULUOUS PHG-RINGS!  
>>  
>>You wouldn't believe some of the rings I saw in the southeast  
>>  
>  
>hehehe- Bill are you lurking?  
>  
>  
>>Here is where I can change it a little bit.  
>>  
> For my next version ..... snip This way you will see the RECEIVE  
>range of all other stations  
>>and the TRANSMIT range of your own. If the circles overlap, then you  
>>will be tracked...  
>  
>  
>Sounds good!  
>  
>Hi Bob, think you have a good idea on the PHG. But how about increasing the  
gain figure above 9db to also make it more accurate for the use of the high  
gain beams in use? I think it's a good idea if not to much problem. Thanks!  
>>  
>>  
>Jim Holley KB8VDT  
jrholley@bright.net  
>  
>

From jimk@on-ramp.net Sat Dec 30 21:35:32 1995  
Received: from mail.ee.net (root@mail.ee.net [206.31.38.3]) by sys1.tapr.org  
(8.7.2/8.7.2) with SMTP id VAA29565 for <aprssig@tapr.org>; Sat, 30 Dec 1995  
21:35:25 -0600 (CST)  
From: jimk@on-ramp.net  
Received: from 206.21.24.178 ([206.21.24.178]) by mail.ee.net (8.6.11/8.6.9) with  
SMTP id WAA30241 for <aprssig@tapr.org>; Sat, 30 Dec 1995 22:30:46 -0500  
Date: Sat, 30 Dec 1995 22:30:46 -0500  
Message-Id: <199512310330.WAA30241@mail.ee.net>  
MIME-Version: 1.0  
Content-Type: text/plain

Content-Transfer-Encoding: 7bit  
Subject: Re: More lessons learned  
To: aprssig@tapr.org  
In-Reply-To: <199512302005.0AA15367@sys1.tapr.org>  
X-Mailer: SPRY Mail Version: 04.00.06.14

>Date: Fri, 29 Dec 1995 18:39:18 -0500 (EST)  
>From: Bob Bruninga <bruninga@nadm.navy.mil>  
>To: aprssig@tapr.org  
>Subject: More lessons learned  
>Message-ID: <Pine.SUN.3.91.951229182719.16659A-100000@greatlakes>  
>  
>When ever I travel with APRS I usually find some things to change. This  
>time, only one thing came up. THOSE REDICULUOUS PHG-RINGS!

- SNIP -

>I spent my entire vacation in Atlanta, only 8 miles from a WIDE. My  
>terrain was about average, and after trying the attic, roof, and then a  
>line into the top of a 40 foot tree, I still could NOT even HEAR the WIDE  
>at all. I finally got out via another home station, but without hearing  
>a WIDE, I could not see any more than 1 to three neighbors. The WIDE PHG  
>ring, of course went FAR beyond my location...

Hay Bob, the only thing you need to change is your radio. Reference my previous  
message "APRS on I-75". All those stations I was seeing in Atlanta were with my  
HT & rubber duck! My height above average terrain was about ground zero, too.

There is certainly nothing wrong with the APRS network in Atlanta and there  
should have been no reason you weren't seeing any more than you did. Sure sounds  
to me like your radio needs a tune up. Hi.Hi.

```
-----  
| 73, de Jim (KG8GE) | jmk@on-ramp.net | Somewhere near the great |  
| Home of PLT2MAP. | KG8GE@WN7C.NCOH.OH.USA | lakes! |  
-----
```

From bruninga@nadm.navy.mil Sun Dec 31 00:15:52 1995  
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])  
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id AAA10006 for <aprssig@tapr.org>; Sun,  
31 Dec 1995 00:15:50 -0600 (CST)  
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id  
BAA18206; Sun, 31 Dec 1995 01:16:16 -0500  
Date: Sun, 31 Dec 1995 01:16:16 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
To: aprssig@tapr.org  
Subject: Re: [APRSSIG:5604] Re: More lessons learned  
In-Reply-To: <199512310224.VAA26006@brutus.bright.net>  
Message-ID: <Pine.SUN.3.91.951231011127.18143G-100000@greatlakes>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sat, 30 Dec 1995, Jim Holley wrote:



> Hi Bob, think you have a good idea on the PHG. But how about increasing the  
> gain figure above 9db to also make it more accurate for the use of the high  
> gain beams in use? I think it's a good idea if not to much problem. Thanks!

WB4APR REPLY COMMENT:

No need, remember when you have a beam, you should be entering a DIRECTIVITY.

This offsets your PHG circle by a factor of about 2 in the favored direction. This is about the same as a 6 db additional gain. So unless your beam is greater than 15 dB then it is adequately represented.

And increasing the circle size much beyond about 9 dB makes little sense, because your range is more limited by the radio horizon than any amount of additional power (or bigger circle...)

From bruninga@nadm.navy.mil Sun Dec 31 00:23:03 1995  
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])  
by sys1.tapir.org (8.7.2/8.7.2) with SMTP id AAA10342 for <aprssig@tapir.org>; Sun,  
31 Dec 1995 00:23:01 -0600 (CST)  
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id  
BAA18228; Sun, 31 Dec 1995 01:23:27 -0500  
Date: Sun, 31 Dec 1995 01:23:26 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
To: aprssig@tapir.org  
Subject: Re: [APRSSIG:5605] Re: More lessons learned  
In-Reply-To: <199512310330.WAA30241@mail.ee.net>  
Message-ID: <Pine.SUN.3.91.951231011823.18143H-100000@greatlakes>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sat, 30 Dec 1995 jimk@on-ramp.net wrote:

> >I spent my entire vacation in Atlanta, only 8 miles from a WIDE. My  
> >terrain was about average, and after trying the attic, roof, and then a  
> >line into the top of a 40 foot tree, I still could NOT even HEAR the WIDE  
>  
> Hay Bob, the only thing you need to change is your radio. Reference my  
> message "APRS on I-75".

WB4APR REPLY COMMENT:

Unfortunately, I came in the I-85 coridor and stayed in the S0uth East near Conyers. Whenever I went mobile more than a few miles toward town, I got lots of packets. But in Conyers/Lithonia, trying four (4) different radios, and 4 diffeent antennas, nothing could be heard...

From cn2859@abaco.coastalnet.com Sun Dec 31 04:56:51 1995  
Received: from abaco.coastalnet.com (abaco.coastalnet.com [204.183.40.2]) by  
sys1.tapir.org (8.7.2/8.7.2) with SMTP id EAA17459 for <aprssig@tapir.org>; Sun, 31  
Dec 1995 04:56:48 -0600 (CST)

Received: from pm-wsh1-30.coastalnet.com by abaco.coastalnet.com (4.1/SMI-4.1)  
id AA09790; Sun, 31 Dec 95 05:55:42 EST  
Date: Sun, 31 Dec 95 05:55:40 EST  
Message-Id: <9512311055.AA09790@abaco.coastalnet.com>  
X-Sender: cn2859@abaco.coastalnet.com  
X-Mailer: Windows Eudora Light Version 1.5.2  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: aprssig@tapr.org  
From: "David M. Gaytko / WD4KPD" <cn2859@abaco.coastalnet.com>  
Subject: paket

anyone know where i can get the packet (listen only) packmon for use with the  
hammcomm interface?

tk's'....73's....david

From HooLooVoo1@aol.com Sun Dec 31 06:43:52 1995  
Received: from mail02.mail.aol.com (mail02.mail.aol.com [152.163.172.66]) by  
sys1.tapr.org (8.7.2/8.7.2) with SMTP id GAA20149 for <aprssig@tapr.org>; Sun, 31  
Dec 1995 06:43:50 -0600 (CST)  
From: HooLooVoo1@aol.com  
Received: by mail02.mail.aol.com (8.6.12/8.6.12) id HAA24681 for aprssig@tapr.org;  
Sun, 31 Dec 1995 07:43:19 -0500  
Date: Sun, 31 Dec 1995 07:43:19 -0500  
Message-ID: <951231074318\_81453599@mail02.mail.aol.com>  
To: aprssig@tapr.org  
Subject: APRS for Windows

Has the thought of writing APRS for Windows been discussed? I beleive it  
would increase the usefulness of APRS in that the user can resize or move a  
window over a large area map to zoom or look somewhere else in the net...

If you've ever played SimCity for Windows you'll understand where I'm going  
with this. Right now APRS works fine under windows, but doesn't take  
advantage of the Windows API and sometimes locks up (on Win 3.1, but I  
haven't tried it for long enuf on Win 95 to come to a conclusion) and doesn't  
run under multitasking as well as I would like to see it.

73's de David

N3NGB@WB3FFV.MD.USA.NOAM  
H00L00V001@AOL.COM

From warakois@world.std.com Sun Dec 31 07:35:19 1995  
Received: from europe.std.com (europe.std.com [192.74.137.10]) by sys1.tapr.org  
(8.7.2/8.7.2) with SMTP id HAA21664 for <aprssig@tapr.org>; Sun, 31 Dec 1995  
07:35:16 -0600 (CST)  
Received: from world.std.com by europe.std.com (8.6.12/Spike-8-1.0)  
id IAA12220; Sun, 31 Dec 1995 08:35:12 -0500  
Received: by world.std.com (5.65c/Spike-2.0)  
id AA01043; Sun, 31 Dec 1995 08:33:41 -0500

Date: Sun, 31 Dec 1995 08:33:41 -0500  
From: warakois@world.std.com (James A Warakois)  
Message-Id: <199512311333.AA01043@world.std.com>  
To: aprssig@tapr.org  
Subject: Maptip

After having tried to make maps since APRS version 1.08 I have come up with several tricks for making or editing maps...maybe someone else can also add their techniques...

As discussed before: The smooth transition from one map to another (same magnification ,spelled "scale") involves making overlapping maps of adjacent areas. Often the same special features (locally important streets,features) must be transferred to a portion of each of the overlapping maps....

I've made a "work map" with the special features (streets etc) in a non-standard color and then transferred this non standard color to the overlapping maps..then when I'm satisfied I change the color of the transferred streets to the routine colors...

This prevents overlaying streets of the same color especially in high detail congested street maps like Boston (cow paths turned to streets and such)

Now, what slick tricks do you have??

Jim/W1KRU

Jim Warakois  
W1KRU

Map Maker  
DF'er

warakois@world.std.com  
W1KRU@KA1TUZ.EMA.MA.NA

From gerry@cs.tamu.edu Sun Dec 31 08:05:49 1995  
Received: from cs.tamu.edu (clavin.cs.tamu.edu [128.194.130.106]) by sys1.tappr.org (8.7.2/8.7.2) with SMTP id IAA22610 for <aprssig@tapr.org>; Sun, 31 Dec 1995 08:05:47 -0600 (CST)  
Received: from solar.cs.tamu.edu (2961@solar.cs.tamu.edu [128.194.132.1]) by cs.tamu.edu (8.6.10/8.6.4) with ESMTP id IAA13626 for <aprssig@tapr.org>; Sun, 31 Dec 1995 08:05:01 -0600  
From: Gerald J Creager <gerry@cs.tamu.edu>  
Received: (gerry@localhost) by solar.cs.tamu.edu (8.6.10/8.6.4) id IAA01231 for aprssig@tapr.org; Sun, 31 Dec 1995 08:04:58 -0600  
Message-Id: <199512311404.IAA01231@solar.cs.tamu.edu>  
Subject: Re: [APRSSIG:5603] MFJ-8621 Crystals  
To: aprssig@tapr.org  
Date: Sun, 31 Dec 1995 08:04:57 -0600 (CST)  
In-Reply-To: <199512310223.SAA08994@ix7.ix.netcom.com> from "William Richarz" at Dec 30, 95 08:28:31 pm  
X-Mailer: ELM [version 2.4 PL24]  
Content-Type: text

William Richarz sez:

>

> Anyone out there have problems getting MFJ-8621 receive xtals for 145.79?

Don't have one, but...

> receiver chip and adjusting for 135.090 Mhz. for accurate tuning, but best I  
> can do is 135.0867, a bit low. I would think I should do better than this.

Any chance of padding the crystal with a small value cap? Couple of pf might bring you into range.

73, gerry  
n5jxs@tamu.edu

From n2czf@gate.net Sun Dec 31 08:45:29 1995  
Received: from osceola.gate.net (osceola.gate.net [199.227.0.18]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id IAA23706 for <aprssig@tapr.org>; Sun, 31 Dec 1995 08:45:26 -0600 (CST)  
From: n2czf@gate.net  
Received: from 199.227.125.180 (wpbfl2-52.gate.net [199.227.125.180]) by osceola.gate.net (8.6.12/8.6.9) with SMTP id JAA34518 for <aprssig@tapr.org>; Sun, 31 Dec 1995 09:46:33 -0500  
Date: Sun, 31 Dec 1995 09:46:33 -0500  
Message-Id: <199512311446.JAA34518@osceola.gate.net>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
Subject: Where is APRS74f.ZIP ??  
To: aprssig@tapr.org  
X-Mailer: SPRY Mail Version: 04.00.06.17

I have seen a few people runing APRS v7.4f and I cdan't find it at all. Looked on the two most obvious places, TAPR and ARN BBS aa week or so ago. Is someone pulling my leg with the beacon line of 7.4f On-Line ???

73's De Rich N2CZF  
n2czf@gate.net  
Jupiter Farms Florida

From ko4qc@ix.netcom.com Sun Dec 31 10:42:47 1995  
Received: from ix12.ix.netcom.com (ix12.ix.netcom.com [199.182.120.12]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id KAA27644 for <aprssig@tapr.org>; Sun, 31 Dec 1995 10:42:44 -0600 (CST)  
Received: from by ix12.ix.netcom.com (8.6.12/SMI-4.1/Netcom) id IAA27561; Sun, 31 Dec 1995 08:32:22 -0800  
Date: Sun, 31 Dec 1995 08:32:22 -0800  
Message-Id: <199512311632.IAA27561@ix12.ix.netcom.com>  
From: ko4qc@ix.netcom.com (Joel Gamble )  
Subject: Re: [APRSSIG:5612] Where is APRS74f.ZIP ??  
To: aprssig@tapr.org

You wrote:

>

>I have seen a few people runing APRS v7.4f and I cdan't find it at  
>all. Looked  
>on the two most obvious places, TAPR and ARN BBS aa week or so ago. Is  
>someone

>pulling my leg with the beacon line of 7.4f On-Line ???

>

>73's De Rich N2CZF

>n2czf@gate.net

>Jupiter Farms Florida

>

Good ? Rich! I too, have seen the beacons stating they were running  
74F. I looked and couldnt find it. Havnt looked in a few days. Think I  
will look now. See ya later.

Ko4qC

Joel

From jeff.wallach@drig.com Sun Dec 31 11:40:48 1995

Received: from holonet.net (root@guardian.holonet.net [198.207.169.11]) by  
sys1.tapr.org (8.7.2/8.7.2) with SMTP id LAA29348 for <APRSSIG@TAPR.ORG>; Sun, 31  
Dec 1995 11:40:45 -0600 (CST)

Received: from drig (root@localhost) by holonet.net with UUCP  
id JAA09877; Sun, 31 Dec 1995 09:28:34 -0800

Received: by drig (PCB-UUCP 1.1f)  
id 38ED19; Sun, 31 Dec 95 11:23:46 -0600

To: APRSSIG@tapr.org

Subject: [APRSSIG:5612] Where is APRS74f.ZIP ??

From: jeff.wallach@drig.com (Jeff Wallach)

Message-ID: <59.48853.99.0C38ED19@drig.com>

In-Reply-To: <199512311446.JAA34518@osceola.gate.net>

Date: Sun, 31 Dec 95 11:17:00 -0600

Organization: Dallas Remote Imaging Group 214-394-7325 <info@drig.com>

-> I have seen a few people runing APRS v7.4f and I cdan't find it at  
-> all. Looked on the two most obvious places, TAPR and ARN BBS aa week  
-> or so ago. Is someone pulling my leg with the beacon line of 7.4f  
-> On-Line ???

->

-> 73's De Rich N2CZF

-> n2czf@gate.net

-> Jupiter Farms Florida

Rich,

The beta2000.zip is on the DRIG ftp server at:

ftp.drig.com /pub/aprs

this is the APRS74F version.

73s

jeff n5itu

From bruninga@nadm.navy.mil Sun Dec 31 15:23:12 1995  
Received: from greatlakes.nadm.navy.mil (greatlakes.nadm.navy.mil [131.121.9.4])  
by sys1.tapr.org (8.7.2/8.7.2) with SMTP id PAA06204 for <aprssig@tapr.org>; Sun,  
31 Dec 1995 15:23:08 -0600 (CST)  
Received: (from bruninga@localhost) by greatlakes.nadm.navy.mil (8.6.12/8.6.12) id  
QAA18797; Sun, 31 Dec 1995 16:23:33 -0500  
Date: Sun, 31 Dec 1995 16:23:32 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
To: aprssig@tapr.org  
Subject: Re: [APRSSIG:5612] Where is APRS74f.ZIP ??  
In-Reply-To: <199512311446.JAA34518@osceola.gate.net>  
Message-ID: <Pine.SUN.3.91.951231162217.18651A-100000@greatlakes>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 31 Dec 1995 n2czf@gate.net wrote:

> I have seen a few people runing APRS v7.4f and I cdan't find it at all. Looked  
> on the two most obvious places, TAPR and ARN BBS aa week or so ago. Is someone  
> pulling my leg with the beacon line of 7.4f On-Line ???

WB4APR REPLY COMMENT:

There is no official 74f. It was the BETA2000 version that tried to fix  
the U-2000 problem. It did not work. Do NOT distribute it.

From cn2859@abaco.coastalnet.com Sun Dec 31 23:45:12 1995  
Received: from abaco.coastalnet.com (abaco.coastalnet.com [204.183.40.2]) by  
sys1.tapr.org (8.7.2/8.7.2) with SMTP id XAA19855 for <aprssig@tapr.org>; Sun, 31  
Dec 1995 23:45:10 -0600 (CST)  
Received: from by abaco.coastalnet.com (4.1/SMI-4.1)  
id AB07010; Mon, 1 Jan 96 00:44:04 EST  
Date: Mon, 1 Jan 96 00:44:04 EST  
Message-Id: <9601010544.AB07010@abaco.coastalnet.com>  
X-Sender: cn2859@abaco.coastalnet.com  
X-Mailer: Windows Eudora Light Version 1.5.2  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: aprssig@tapr.org  
From: "David M. Gaytko / WD4KPD" <cn2859@abaco.coastalnet.com>  
Subject: pakmon 1.0

looking for this program for use with the hammcomm interface. it is for  
packet rx only. just saw a ref. to it in the new nuts & bolts mag.

tk...73's...david

From jeff.brenton@espi.com Sun Dec 31 23:48:26 1995  
Received: from flood.xnet.com (flood.xnet.com [198.147.221.35]) by sys1.tapir.org  
(8.7.2/8.7.2) with ESMTP id XAA20042 for <aprssig@tapir.org>; Sun, 31 Dec 1995  
23:48:22 -0600 (CST)  
From: jeff.brenton@espi.com  
Received: by flood.xnet.com (8.7/XNet-1.4R)  
id XAA17692 for aprssig@tapir.org; Sun, 31 Dec 1995 23:41:03 -0600 (CST)  
>Received: by espi.com  
id 0VGR20EK Sun, 31 Dec 95 22:23:53 -0500  
Message-ID: <9512312223.0VGR20E@espi.com>  
Organization: ESP-BBS  
X-Mailer: TBBS/PIMP v3.35  
Date: Sun, 31 Dec 95 22:23:53 -0500  
Subject: MFJ-8621 Crystals  
To: aprssig@tapir.org  
Content-Type: text

William Richarz asked if anyone else had problems tuning the  
MFJ-supplied crystals for the MFJ-8621. I did - they were HORRID, but I  
\*think\* I have them close. It was impossible to tune the set (I tried  
two) with the book method, and I haven't had access to a service  
monitor yet to check it, but I used the "ear" method to get it as close  
as I could.

To be honest, I don't think MFJ \*cares\* about the performance of the  
8621 on 145.790...